

REF: MKTG/SR/MP/21-22  
DATED: -29-12-2021

To  
M/s Sugar Grid Agro Producer Company  
Tal. Khatav, Distt Satara  
Maharashtra  
Email: [phoenixorgvaduj@gmail.com](mailto:phoenixorgvaduj@gmail.com), [sushant1994chavan@gmail.com](mailto:sushant1994chavan@gmail.com)

Sub: Quotation for the Supply of Seed Processing Plant 6 TPH.  
Ref : Your discussion with Dr. Vinod Kalbanda, CGM.

Dear Sir,

With reference to above, we are pleased to enclose the followings:

- Technical Specification
- Price Schedule.
- Commercial Terms & Conditions (**Annexure-A**)
- Literature

This is for your information that our organization is professionally managed and has a team of well qualified Engineers, Scientists and Technicians who are constantly engaged in Production, Design and Development, Quality Control and After Sales Service.

**We have been awarded ISO 9001:2015 Certification by M/s. TUV South Asia Pvt. Ltd.**

Please visit our website [www.indosawagri.com](http://www.indosawagri.com) for more information.

We hope, you will find our offer most competitive and technically responsive.

Thanking you and awaiting your valued order.

Yours faithfully,

**AJAY SAGAR**  
(Managing Director)  
M/S. OSAW INDUSTRIAL PRODUCTS PVT. LTD.  
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GSTIN No.: 06AAACO2804K2ZM  
CIN No.: U29100HR1992PT2PTC031570

**SEED PROCESSING PLANT -6TPH**

**1. VERTICAL BUCKET ELEVATOR 6 TPH**

**4 No.**

V.B. Elevator to feed seed to processing machines suitable for Wheat, Paddy, self cleaning type boot section and discharge spouts etc. having following Specification:

1.	<b>Capacity</b>	6.0 Ton/hr. Wheat Basis
2.	<b>Discharge Type</b>	Centrifugal Discharge
3.	<b>Sheet metal parts and casing MS sheet Thickness</b>	<ul style="list-style-type: none"> <li>• Head Casing Sheet = 2 mm thick &amp; CNC punched (M.S).</li> <li>• boot Casing Sheet = 2.5 mm thick &amp; CNC punched (M.S).</li> <li>• leg Casing Sheet = 1.6 mm thick &amp; CNC punched (M.S).</li> </ul>
4.	<b>Bucket Material</b>	Nylon
5.	<b>Belt</b>	Rubberized canvass material Belt speed not more than 1.0 m/sec.
6.	<b>Head and boot pulley</b>	Crowned type.
7.	<b>Discharge height</b>	As per machine feed hopper height.
8.	<b>Speed Reduction</b>	By Gear Box of Suitable Gear reduction ratio
9.	<b>Elevator Gear Motor</b>	<ul style="list-style-type: none"> <li>• Gear motor Power build/Premium make</li> <li>• Not More than 2.0 HP 3Phase,440 V Crompton/ ABB/ or Equivalent make along with starter in panel board.</li> </ul>
10.	<b>Construction</b>	Painted Steel.
11.	<b>Accessories</b>	Service Platform, Spouting, input hopper ,Ladder ,discharge valve, pit cover and grating in first elevator etc.

**2. SEED PRE- CLEANER - 5-6 TPH S8309 1 No.**

Pre cleaner machine is required for various pulses and cereal and Oil Seeds from crop seed/ grains with compressed plywood sieve deck, three screen Layers, bouncing ball screen cleaning system & screw auger for rejected seeds outlet, double aspirations, having following technical specifications. **All M.S sheets components of this machine should be made on CNC Machine.**

1.	<b>Total screen area</b>	6.25m <sup>2</sup>
2.	<b>Length of Screens</b>	Minimum 500 cm Seed travel length on perforated screen.
3.	<b>Screen sizes</b> 1) Top Screen 2) Middle Screen 3) Bottom Screen	100 cm x 125 cm (L x B) - 1 No. (GI Sheet) 100 cm x 125 cm (L x B) - 2 No. (GI Sheet) 100 cm x 125 cm (L x B) - 2 No. (GI Sheet)
4.	<b>Capacity</b>	5-6 Ton/hr Wheat Basis
5.	<b>Blower system</b>	<ul style="list-style-type: none"> <li>• Centrifugal type blower</li> <li>• Motor = 7.5 HP.3Phase,440 V Crompton/ ABB/ or Equivalent make.</li> </ul>

		<ul style="list-style-type: none"> <li>Air volume = 8500 CMH</li> <li>blower fan dynamically balanced.</li> </ul>
6.	<b>Sieve Boat</b>	<p>Motor = 1.5 HP.3Phase,440 V Crompton/ ABB/ or Equivalent make.            Construction = Compressed Seasoned Double-Sided Pre laminated ply wood 21 mm (± 0.5).            Cleaning System= Sieves cleaning by rubber balls.            Sieve boat have zig zag slots all along guide for ease of taking out screens.</p>
7.	<b>Machine structure</b>	<ul style="list-style-type: none"> <li>Machine Vertical C steel channels cnc punched: 208 x 60 x 3mm.</li> <li>Machine horizontal C steel channels cnc punched: 120 x 60 x 3mm.</li> </ul>
8.	<b>Aspiration chamber</b>	<ul style="list-style-type: none"> <li>Aspiration chamber side steel plates min 2.5mm thick.</li> <li>Aspiration chamber partition plates min.1.6mm thick.</li> <li>Aspiration chamber top cover min 1.6mm thick.</li> <li>No. of Aspirations 02 Nos. ( Pre &amp; Post ).</li> </ul>
9.	<b>Outlet chutes</b>	Min.1.6mm
10.	<b>Auger</b>	<ul style="list-style-type: none"> <li>1 no screw conveyor (for removing light impurities).</li> <li>Auger housing sheet thickness = 1.6 mm</li> <li>Auger screw conveyor sheet thickness = 2 mm.</li> <li>R.P.M = 120-125</li> </ul>
11.	<b>Feed Roller</b>	<ul style="list-style-type: none"> <li><b>R.P.M = 30-35</b></li> <li>Diameter =16.5cms</li> </ul>
12.	<b>Bearing Make</b>	NTN /SKF
13.	<b>Deck Oscillation</b>	300-320
14.	<b>Deck Screen Slope</b>	<ul style="list-style-type: none"> <li>Top Screen 7.5°</li> <li>Middle Screen 12.5°</li> <li>Bottom Screen 16°</li> </ul>
15.	<b>Outer Construction</b>	Painted Steel.
16.	<b>Power Supply</b>	440V, 3 Phase AC.
17.	<b>Cyclone with ducting</b>	For Dust collection.
18.	<b>Foundation Frame</b>	For fixing machine made of c- channel.
19.	<b>Optional accessories</b>	Additional Sieves for different crops.

### 3.SEED GRADER (FINE CLEANER TYPE) 5-6TPH S8250

1 No.

Seed Cleaner cum Grader suitable for Paddy, Wheat and other crops seeds to remove impurities from good seeds etc. having following Specifications. The **total available travel length of perforated screen is minimum 560 cm giving highest opportunity to all seeds to come into contact with screen apertures and thereby very high cleaning and grading efficiency.**

1.	<b>Total screen area</b>	8.4 m2
2.	<b>Length of Screens</b>	Minimum 560 cm Seed travel length on perforated screen.
3.	<b>Screen sizes</b> 1) Top Screen	80.0 cm x150 cm (L x B) - 1 No.(GI Sheet)

	<b>2) Middle Screen</b> <b>3) Bottom Screen</b>  <b>Ball's Frame Grid</b>	80.0 cm x150 cm (L x B) - 3 No.(GI Sheet) 80.0 cm x150 cm (L x B) - 3 No.(GI Sheet)  30 no's grids provided on each balls frame and each grid contains 5 no bouncing balls for effective cleaning of screens.
4.	<b>Input Capacity</b>	5-6 Ton/hr Wheat Basis
5.	<b>Input Hopper</b>	Over all dimensions ( L X W X H) = 109 cm X 60 cm X 55 cm. Capacity = 200 kg sheet thickness = 1.6 mm
6.	<b>Blower system</b>	<ul style="list-style-type: none"> <li>• Centrifugal type blower</li> <li>• Outer housing ( L X W X H) = Min 122 cm X 119 cm X 48 cm.</li> <li>• Outer housing sheet thickness = 3 mm</li> <li>• Motor = 7.5 HP.3Phase,440 V Crompton/ ABB/ or Equivalent make.</li> <li>• Air volume = 8500 CMH</li> <li>• Impeller diameter = Min 75 cm</li> <li>• Impeller height = Min 8.5 cm</li> </ul>
7.	<b>Sieve Boat</b>	<ul style="list-style-type: none"> <li>• Motor = 2 HP.3Phase,440 V Crompton/ ABB/ or Equivalent make.</li> <li>• Construction = Compressed Seasoned Double Sided Pre laminated Imported ply wood 21 mm (± 0.5).</li> <li>• Cleaning System= Sieves cleaning By rubber balls.</li> <li>• Sieve Boat length and width are 291 cm X 154 cm X 80 cm.</li> <li>• Sieve boat have zig zag slots all along guide for ease of taking out screens.</li> </ul>
8.	<b>Machine structure</b>	<ul style="list-style-type: none"> <li>• Overall Dimensions ( L X W X H) = 292 cm X 171 cm X 147 cm.</li> <li>• Machine Vertical C steel channels cnc punched : 208x60x3mm.</li> <li>• Machine horizontal C steel channels cnc punched : 120x60x3mm.</li> </ul>
9.	<b>Aspiration chamber</b>	<ul style="list-style-type: none"> <li>• Aspiration chamber side steel plates min 2.5mm thick.</li> <li>• Aspiration chamber partition plates min.1.6mm thick.</li> <li>• Aspiration chamber top cover min 1.6mm thick.</li> <li>• Aspiration chamber size 300cm x 158cm x 89cm.</li> <li>• No. of Aspirations 02 Nos. ( Pre &amp; Post ).</li> <li>• Volume = 2.5 m<sup>3</sup></li> <li>• Post aspiration chamber size ( L X W X H) = 23 cm X 159 cm X 131 cm.</li> </ul>
10.	<b>Outlet chutes</b>	Min.1.6mm
11.	<b>Auger</b>	<ul style="list-style-type: none"> <li>• 2no screw conveyor (for removing light impurities) having length 230 cm.</li> <li>• Auger housing dimensions ( L x W x H) = 175 cm x 23 cm x 18 cm.</li> <li>• Auger housing sheet thickness = 1.6 mm</li> <li>• Auger screw conveyor sheet thickness = 2 mm.</li> </ul>
12.	<b>Feed Roller</b>	<ul style="list-style-type: none"> <li>• R.P.M = 18-20</li> </ul>

		<ul style="list-style-type: none"> <li>• Length = 155 cm</li> <li>• Diameter = 16.5 cm</li> <li>• Shaft length = 183 cm</li> </ul>
13.	<b>Bearing Make</b>	NTN /SKF
14.	<b>Deck Oscillation</b>	300-320
15.	<b>Deck Screen Slope</b>	<ul style="list-style-type: none"> <li>• Top Screen 4°</li> <li>• Middle Screen 6°</li> <li>• Bottom Screen 6°</li> <li>•</li> </ul>
16.	<b>Outer Construction</b>	Painted Steel.
17.	<b>Power Supply</b>	440V, 3 Phase AC.
18.	<b>Cyclone with ducting</b>	For Dust collection.
19.	<b>Foundation Frame</b>	For fixing machine made of c- channel.
20.	<b>Foundation Frame Dimensions ( L X W X H)</b>	292 cm x 171 cm x 110 cm.
21.	<b>Optional accessories</b>	Additional Sieves for different crops.

#### 4. GRAVITY SEPARATOR (6 TPH Based on Wheat) S176MA

1 No.

The machine to remove impurities and upgrades the material on the principle of specific weight of seeds and make four grades of seeds so as to collect and pack separately into the containers. The deck is made of wood. The Stainless wire mesh steel screen provided at the top of the deck. The diverters provided to divert good, middling and low grade into different chutes.

1.	<b>Capacity</b>	5-6 TPH Based on Wheat.
2.	<b>No of fans</b>	7 No's (fans dynamically balanced)
3.	<b>Feeding device</b>	Regulated with gear and pinion operated shutter.
4.	<b>Air control system</b>	Individual adjustable
5.	<b>Gravity Deck</b>	Type of deck = rectangular type deck with length of 300 cm and width 120 cm made of high-quality wood and steel frame. Deck area = 3.6 sq. meter. Deck oscillation= Deck oscillation speed with VFD make of ABB/ SIEMENS/or EQUIVALENT. Inclination of deck = Manual operated (adjustable side slope and end slope).
6.	<b>Electrical drives</b>	12.5HP drive for fan blower and 3 HP drive of deck oscillation make of siemens / Kirloskar or equivalent make.
7.	<b>Bearings Make</b>	NTN / SKF
8.	<b>Filters</b>	SS made wire mesh filters fitted.
9.	<b>Bin 200 kg capacity</b>	To store and to feed gravity separator.
9.	<b>Optional Accessories</b>	Additional deck for different crops.

## 5. DESTONER

-01 Nos.

Vibro destoner is useful in fine cleaning of Grains. This machine will effectively clean the grains where pre cleaning of grains is already done. This machine will separate the heavier impurities like stones, a blower attached with air lock arrangement will be useful in separating the dust and lighter impurities. There are two screens provided in the machine, maximum quantity of stones is separated over these two screens. It is advised to maintain a constant flow rate of grains. The vibration is adjustable as per requirement and both motors to be operated with a single switch. The inclination can be adjustable as per the requirement, variety of Seed / grain to be.

### Features -

Suitable for Seed/Grains  
Fine separation of stones & other heavy materials  
Easy for installation and usage  
Higher production in low power consumption

### Specification -

Capacity	: 5-6 TPH wheat basis.
Vibro Motor	: 0.5 HP
<b>Blower Motor</b>	<b>: 10 HP</b>
<b>Cyclone</b>	<b>: 1100 Dia.</b>
<b>Air Lock</b>	<b>: 1 HP</b>

## 6. AUTOMATIC WEIGHING AND BAGGING MACHINE (10-50kg) Solenoid

### (A) WEIGHING SYSTEM WITH CONTROL PANEL

#### SPECIAL FEATURES:

- Big Clear Digital Display.
- Load Cell based.
- Microcontroller based electronic controller.
- Programmable net weight.
- Easy to operate.
- Low power consumption.
- Electromagnetic Solenoid operated no need for compressed air.
- External weighing calibration.
- Gravity feeder.
- Net weighing.

#### SPECIFICATIONS:

Weighing Range	: 10 kg to 50Kg
Accuracy	: $\pm 0.5\%$
Display	: 7 Segment, 7 Digit LED display, Digit height 25mm.
Output Speed	: 3-5 bags per min. (No.of bags/min depends upon the commodity being weighed, weight of bag and accuracy required)
Bag	: Open Mouth type.
UPS	: 1 KVA. (Machine can run on UPS for 30 min. in case of power failure)
Power Consumption	: 800 Watt only.

### (B) STORAGE BIN

Hopper Capacity	: 2 TON
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## (C) INDOSAW Elevator with Electric Motor

Elevator Capacity	: 10 Ton/Hour
Type of Elevator	: Centrifugal Discharge Belt type
Material to be handled	: Free flowing Granular Material
Discharge Chute	: Provided with setup
Coating	: Two coats of enamel paint
Material of Belt	: Rubberized
Material of Bucket	: Nylon

## (D) HEAVY DUTY CONVEYORISED BAG CLOSING MACHINE

A complete Heavy Duty Bag Closing Machine consists of following parts:

### (i). SEWER HEAD

It is a double thread type heavy bag closing/stitching sewer head. It gives double thread stitch (chain stitch) in one go.

Stitching Capacity	: 500 - 600 bags per hour
Electric Motor	: 0.5 HP, 3 Phase-1440 rpm
Mechanical Trimming Knives	: Installed in the sewer head which cut the thread after a bag is stitched.

### (ii). MOUNTING COLUMN

Material of Construction : Rigid M.S. Seamless tubes.

### (iii). BELT CONVEYOR

Belt width	: 300 mm
Conveyor length	: 3000 mm
Carrying Capacity	: 600 + bags per hour, which is synchronized with the speed of the Sewer Head.
Electric Motor	: 1 HP, 3 Phase
Speed reduction	: with help of Gear Box

## 7.Portable Stitching Machine

## 8.COMPACT UNIVERSAL DIGITAL DATA LOGGING MOISTURE METER (Cat No.6010)

This Moisture Meter is designed with 2 line 16 character alphanumeric LCD display which displays moisture %age, temperature, time, commodity name, Commodity code, pressure (thickness setting) & type of volume cup. No need for thickness setting chart.

### SALIENT FEATURES:

- C Frame construction
- Body made of Mild Steel
- Test Cup Made of Stainless Steel
- Test Cup shall be visible while giving pressure
- Ratchet Handle Made of Stainless Steel.
- Data logging with Data Storage capacity of 200 readings
- Three Hot keys for any three crops.
- Calibration check and Error Correction & Auto Calibration
- Averaging, Last reading recall facility & Curve Programming.
- Separate code for each commodity.

### SPECIFICATION:

Commodity calibration	: Food Grains, Pulses, Oil Seeds, & Vegetables Seeds etc.
Range	: 3.5 to 40%
Consistency	: $\pm 0.2$ %
Principle of measurement	: Resistance
Temperature Compensation	: Automatic with PT-100 temperature sensor.
Error Conditions	: Under Range, Over Range etc.
Display	: 2 x16 character alphanumeric LCD display.
Low Battery Indication	: Displayed on LCD display, No display of Moisture percentage in case of low battery.
RS 232 Port	: It has the provision to attach printer to print Moisture %age, Temperature, Commodity name, date and Time through printer. Recorded data can be transferred to PC through RS 232 port.
Calibration check & Error Correction	: Provision to check the calibration as and when desired as per 5.3 clause of IS: 8824-1978 Part-1. Correction of deviation from factory reading against Standard reference & Temperature calibration can be done in a very user friendly way.
Auto Adjustment	: Automatic on LCD using a simple key operation. (Without opening the equipment or using a screw driver). When reading in a moisture meter gets disturbed with a passage of time there is a provision of checking this and correcting this to factory settings. Provision for recalibration. With standard calibrator is also given.
Hot keys	: Hot Keys for three crops which are programmable
Keypad	: Membrane type keypad
Averaging	: Customer can have averaging of number of readings of moisture Percentage through a key.
Recall Facility	: Last reading Recall facility.
Curve Programming	: Curve programming for all commodities
New Commodity Calibration	: It has facility to calibrate new commodity
Data Logging	: It has facility to record data, which includes Moisture percentage, Temp. Commodity Name, Commodity Code along with Date &
Time.	
Data storage capacity	: It has memory of 200 readings.
Power	: 9V DC Adaptor for AC mains or 6 dry cells.
Size (LxBxH in cm)	: 28cm x 17.5cm x 24cm Approx.
<b>Weight</b>	<b>: 12-14Kg. Approx.</b>

**SEED PROCESSING PLANT - 6TPH (HSN CODE: 8437, G.S.T @5 %)**

**PRICE SCHEDULE**

SR. NO.	NAME OF THE EQUIPMENT	QTY	EX -WORK UNIT PRICE (IN RS.) EXCLUDING G.S.T . PLEASE REFER ANNEXURE-A	G.S.T @ 5%	EX-WORK UNIT PRICE (IN RS.) INCLUDING G.S.T. PLEASE REFER ANNEXURE-A
1	VERTICAL BUCKET ELEVATOR	3	549353	27468	576820
2	PRE -CLEANER	1	573735	28687	602421
	MACHINE STAND PAINTED COMPLETE	1			
	AIR CONTROL LEVER SETTING STAND	1			
	SCREEN CHANGING STAND PAINTED COMPLETE	1			
	CYLONE STAND PAINTED	1			
	AIR TRUNK 4 METER	1			
	ADDITIONAL SIEVE SET	1	48980	2449	51429
3	FINE -CLEANER	1	745196	37259	782455
	MACHINE STAND PAINTED COMPLETE	1			
	AIR CONTROL LEVER SETTING STAND	1			
	SCREEN CHANGING STAND PAINTED COMPLETE	1			
	CYLONE STAND PAINTED	1			

	AIR TRUNK 4 METER	1			
	ADDITIONAL SIEVE SET	1	104085	5204	109289.25
4	GRAVITY SEPARATOR	1	631313	31566	662878.65
5	DESTONER	1	540909	27045	567954
6	AUTOMATIC WEIGHING AND BAGGING MACHINE (10-50KG) SOLENOID				
	WEIGHING SYSTEM WITH CONTROL PANEL	1	424712	21235	445947
	STORAGE BIN	1	132889	6644	139533
	INDOSAW ELEVATOR WITH ELECTRIC MOTOR	1	274866	13743	288609
	HEAVY DUTY CONVEYORISED BAG CLOSING MACHINE	1	338761	16938	355699
7	PORTABLE BAG STITCHING MACHINE	1	12000	600	12600
8	MOISTURE METER	1	20754	1038	21792
	TOTAL		4397553	219876	4617429

TERMS AND CONDITIONS

1	<b>PRICES:</b> Our prices are Ex Works Basis including Packing, G.S.T But excluding Forwarding, Freight, Insurance & Installation.
2	<b>FORWARDING, FREIGHT, INSURANCE:</b> Shall be paid by you to cargo/transport on to pay basis at the time of delivery.
3	<b>G.S.T: Including In Price Schedule .</b>
4	<b>PAYMENT:</b> Please send us 50% advance by Demand Draft/NEFT along with your order and balance 50% through Demand Draft/NEFT along with taxes and duties before despatch of goods.
5	<b>DELIVERY:</b> 6-8 weeks from our works after receipt of technically and commercially clear order.
6	<b>VALIDITY:</b> Our offer shall remain valid for 90 days.
7	<b>WARRANTY:</b> 12 months from the date of dispatch against any manufacturing defect and/or bad workmanship.
8	<b>FORCE MAJEURE CLAUSE:</b> Regarding all circumstances beyond our control such as riots, strikes, lockouts, War, civil disturbances act of God, Government decision, stoppage of sale of any product for reason, we shall not be held responsible for non execution of orders.
9	<b>AFTER SALES SERVICE:</b> We always keep a stock of spare parts ready with us to meet the customers Requirement. We have a wide net work of dealers, service engineers and technicians to render prompt after sales service.
10	<b>DEMURRAGE CHARGES:</b> In case the goods are not collected by the customer from Transport/Cargo/Railways, the demurrage charges will be borne by the customer.
11	<p><b>INSTALLATION: Installation shall be charged extra.</b></p> <ul style="list-style-type: none"> <li>• Civil works is in Customer's Scope.</li> <li>• Electrical Control Panel is in Customer scope .</li> <li>• <b>3 Phase power supply &amp; earthing</b> shall be provided by the customer.</li> <li>• <b>Digging of pit</b> as per the design , is in customer's scope.</li> <li>• <b>Electrical Wiring &amp; Cabling</b> s shall be provided by the customer.</li> <li>• In case Installation is delayed due to non availability of Person, Place or infrastructure on your part, we shall charge installation charges again for extra visit.</li> <li>• G.S.T @18% or as applicable at the time of Installation shall be charged extra on installation Charges.</li> </ul> <p><b>Any Item required by customer other than mention in the Quotation will be charged on customer's Account.</b></p>

**AJAY SAGAR**  
(Managing Director)  
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