

**Occipital Technologies Pvt. Ltd.**  
B-67, NICE, Setpur MIDC,  
Nashik, Maharashtra, India - 422007  
www.agrograde.com  
+91 8369599377, sales@agrograde.com  
GSTIN: 27AACCO4346G1ZH

OTPL-PRO-Q71

DATE: 12/01/2022

# Proposal for Smart Onion Grading & Sorting Machine

Model: S1

For: **Kisan Pragati Farmers Producer Company Limited**

Vadallbhol, Chandwad, Nashik

# Agrograde

**Occlptal Technologies Pvt. Ltd.**  
B-67, NICE, Setpur MIDC,  
Nashik, Maharashtra, India - 422007  
www.agrograde.com  
+91 8389599377, sales@agrograde.com  
GSTIN: 27AACCO4348G1ZH

To,  
Nivrutti Aher  
Kisan Pragati Farmers Producer Company Limited  
Vadailbhol, Chandwad, Nashik  
9925500592 / 8010619540  
nandkisharchavan9816@gmail.com

## About Agrograde

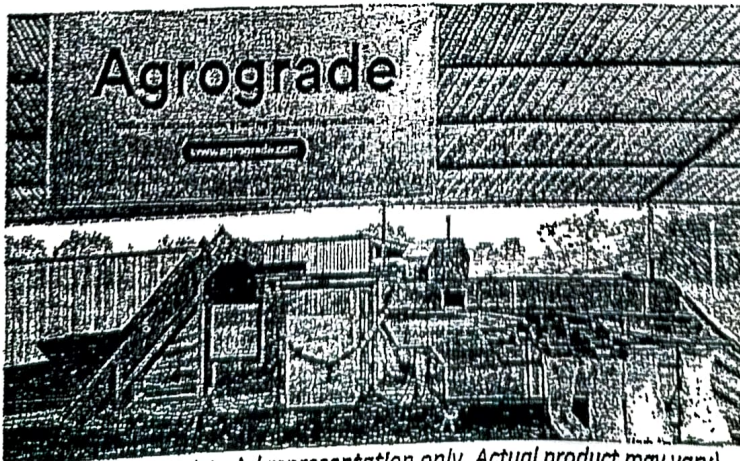
Quality in fresh produce has always been subjective in nature, causing multiple problems in the supply chain. Agrograde is an agritech startup working on standardising quality in fresh produce to tackle food loss and opaque quality assaying mechanisms in the supply chain. Agrograde leverages AI through machines to assess the quality of fruits and vegetables to help businesses take informed action at every aggregation node in the supply chain. The solutions aim to increase the efficiency of post-harvest activities, improve the marketability of the produce, and reduce food loss.

## Need for our solution

A uniform quality gets a premium price in the market while an ungraded mixed quality produce has lower marketability. Quality assessment and grading sorting activities play an important role in the supply chain as they remove the rotten produce from the lot and improve marketability of the produce. A single rotten fruit or vegetable can damage the entire produce, this makes grading and sorting very important to protect the shelf life of the perishable produce.

## Our Solutions

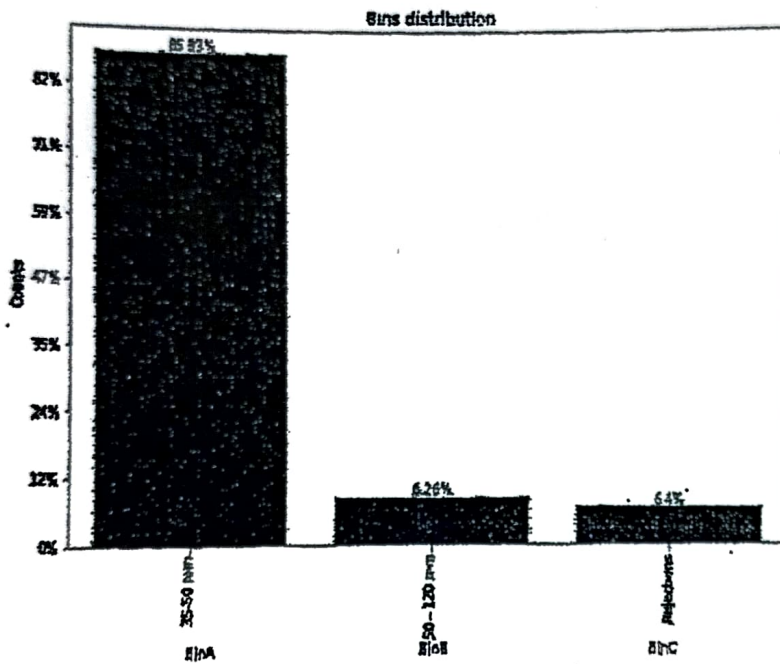
Agrograde's smart grading and sorting machines harness the power of artificial intelligence to detect quality parameters in real time for fast, reliable and precise performance. An array of sensors and industrial grade high speed cameras capture images of fruits and vegetables which are then analysed by Agrograde's proprietary A.I. algorithms for size, colour, shape, sprouts, physical damages and other major defects. The produce is then segregated into multiple grades based on the quality assessed by the A.I. system.



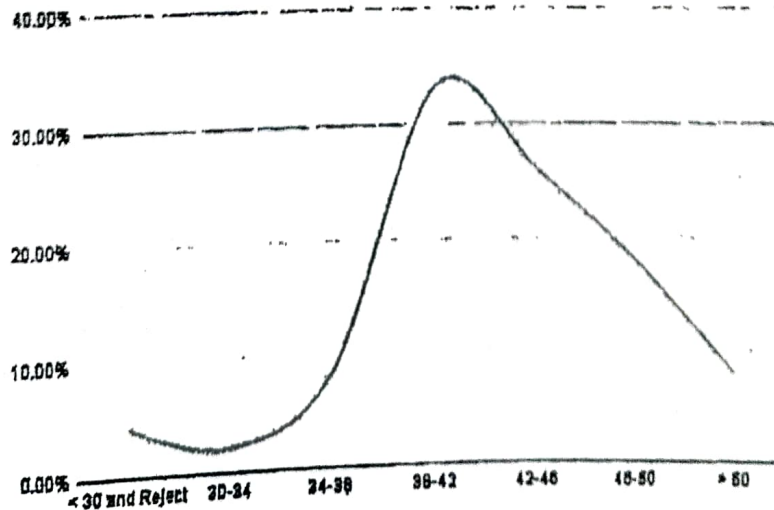
*(Image is for pictorial representation only. Actual product may vary)*

**Features:**

- Grading and Sorting of Onions based on Size and Quality
- Rejection criteria: Small size, Major defects and other defects as per requirement (e.g. rotten, black smut, sprouts, doubles etc).
- Customisable size and quality settings as per user requirement
- Minimal maintenance costs
- Low electricity consumption.
- Dashboard for lot / Batch details
- Online technical support



*Online reports provided on cloud*

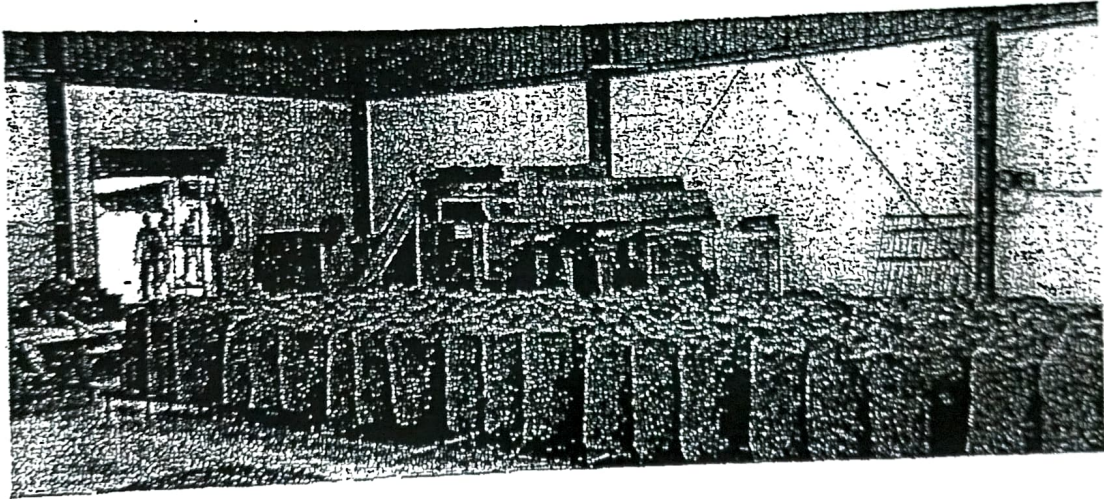


## Specifications:

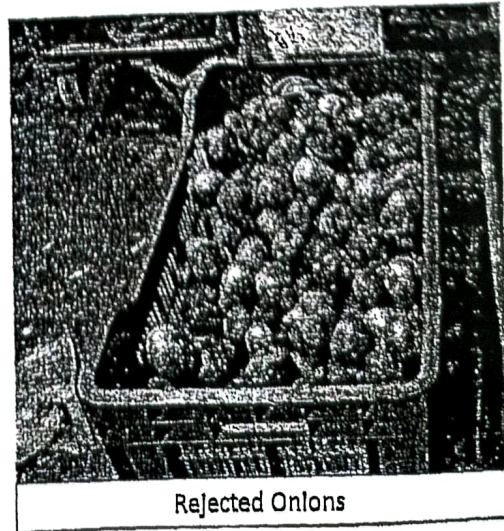
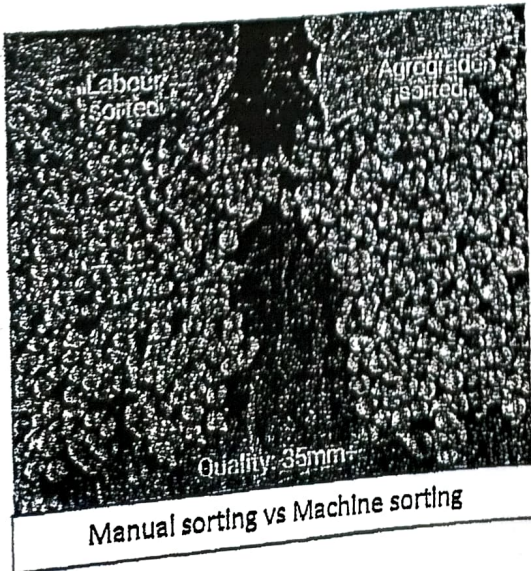
1. Number of grades: 2 good quality grades + 1 rejection grade
2. Capacity per hour: Approximately 1 MT/hour (Considering 45-55mm size range)
3. Dimensions  
Machine: 8m x 1.5m  
Operating space: 2m along length and width
4. Power requirements: 230V AC single/three phase  
Average Power Consumption: 5 HP / 3.7 kW (Approximately 3-4 units per hour)
5. Warranty: 1 year

## Pre-requisites:

1. Flat platform for machine
2. Stable power supply
3. Internet connection via LAN/Wi-Fi



## Examples:



**Occipital Technologies Pvt. Ltd.**  
 B-67, NICE, Satpur MIDC,  
 Nashik, Maharashtra, India - 422007  
 www.agrograde.com  
 +91 8389599377, sales@agrograde.com  
 GSTIN: 27AACCO4346G1ZH

**Commercial Terms & Conditions:**

Sr. no.	Items	Amount	GST Rate
1.	Agrograde optical grading sorting machine (Capacity: 1MT/hour) Includes: Automated Feeding Machine Grading Sorting Machine Bag filling system for 26-50kg bags	Rs. 10,00,000	12%
2.	Logistics, Installation and Commissioning	Rs. 50,000	18%
3.	Maintenance Charges for a period of 1 year after the warranty period	Rs. 75,000	18%
	<b>Total</b>	<b>₹ 11,25,000</b>	<b>₹ 1,42,500</b>
	<b>Grand Total (Amount + GST)</b>	<b>₹ 12,67,500</b>	

**Power Requirements**

Machine Speed: Approximately 1 Metric Tonnes per hour (45-55mm onions)

Power required: 5 HP / 3.7 kW (Approximately 3-4 units per hour)

