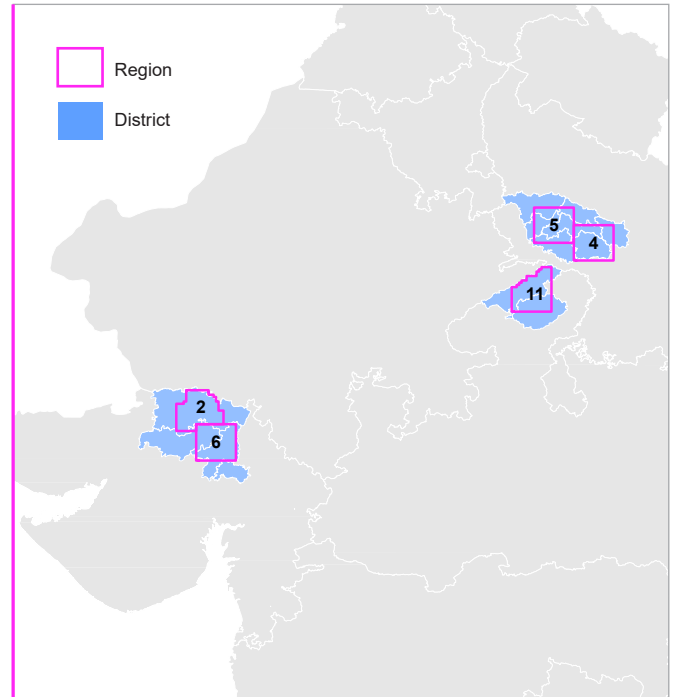


Mustard is the third-most important oilseed crop after soybean and groundnut, contributing 20-25% of total oilseed production in the country. Mustard is mainly grown in North-Western parts of India. Major mustard-producing states are Rajasthan, Haryana, Madhya Pradesh, Uttar Pradesh, Gujarat, West Bengal, and Assam.

Focus Regions



| Metric Tons (MT) | | | | | |
|------------------|----------------|------------|----------------------|----------------------|--------------------------------|
| Region ID. | State | Production | Risk Free Production | Available Production | Available Risk Free Production |
| R-11 | Madhya Pradesh | 2,12,123 | 2,05,368 | 8,485 | 8,215 |
| R-2 | Gujarat | 1,14,121 | 1,11,174 | 10,271 | 10,006 |
| R-5 | Uttar Pradesh | 42,322 | 40,923 | 4,232 | 4,092 |
| R-4 | Uttar Pradesh | 40,622 | 39,463 | 4,062 | 3,946 |
| R-6 | Gujarat | 25,706 | 24,610 | 2,571 | 2,461 |

Major varieties grown in different agro-climatic zones of India

| Agro-climatic zone | State | Region ID. | Major Districts | Varieties |
|------------------------------------|----------------|------------|--|---|
| Gujarat Plains and Hills (GPH) | Gujarat | R-2 | Banas Kantha | Gujarat Mustard 1, Gujarat Mustard 2, Gujarat Mustard 3, Gujarat Mustard 4, Gujarat Sarson 1, Pusa Jai Kisan (BIO902), Pitambri (RYSK-05-02) |
| | | R-6 | Patan, Mahesana, Gandhinagar | |
| Central Plateau and Hills (CPH) | Madhya Pradesh | R-11 | Gwalior, Morena | Pusa Mustard 27, Pusa Mustard 30, Pusa Jai Kisan (BIO902), RGN-73, NRCHB-506 Hybrid, NRCHB-101, Jawahar Mustard 2, Jawahar Mustard 3, 45S46, PROAGRO-5210 |
| Upper Gangetic Plains Region (UGP) | Uttar Pradesh | R-4 | Mainpuri, Etah, Farrukhabad | Giriraj (DRMRU31), Hayala PVC (9-22-1), Narendra Rai - 8501, NRCHB-506 Hybrid, PBR-357, PR 20061 (Pant Rai 19), Pusa Mustard 28, Pusa Mustard 30, Raj Vijay Mustard-2 (JMWV 08-3), RGN 236, RH 0749, NRCHB-101, Pitambri (RYSK-05-02) |
| | | R-5 | Etah, Firozabad, Kasganj, Hathras, Aligarh | |






Seasonal Calendar

The seasonal details are depicted in the calendar by their agro-climatic zones

| Agro-climatic zone | Region | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar |
|--------------------|----------|-----|-----|-----|-----|-----|-----|-----|-----|
| GPH | R-2, R-6 | | | | | | | | |
| CPH | R-11 | | | | | | | | |
| UGP | R-4, R-5 | | | | | | | | |

Note: GPH Gujarat Plains and Hills, CPH Central Plateau and Hills, UGP Upper Gangetic Plains Region

 Sowing
  Mid season
  Harvesting



Contract Summary

A brief overview of the commodity traded in the Agriota E-Marketplace.

| | |
|----------------------------|--|
| Lot ID | LOT23MU08 |
| HSN Code | 10019910 |
| Commodity | Mustard |
| Variety | Pusa Mustard 27 |
| Grade | Grade-II (Band-III) |
| Aggregation Unit | Metric Tons (MT) |
| Minimum Lot Size | 10.00 MT |
| Bid Window Termination | 48 Hr |
| Allowable Lot Variance (+) | 1.00 MT |
| Allowable Lot Variance (-) | 0.50 MT |
| Rights per Lot (No.) | 5 |
| Current Lot Size | 10.00 MT |
| Contract Price (Per Unit) | ₹ 42,580 |
| Fees | 1.50% |
| Taxes | 0.00% |
| Packaging Size (Per Bag) | 50 Kg |
| Contract Value | ₹ 4,32,187 |
| Logistic Hub Location | Maruti Nandan Warehouse Godown No.14,66,113 Diyodar Bhabhar Highway, Opp.Sahajanand Petrol Pump,Banaskantha Gujarat, Pin Code-385320 |



Quality Specifications

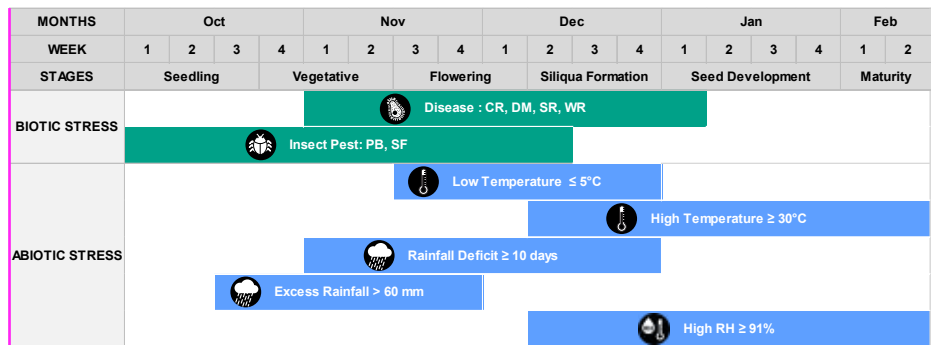
Quality by both standard post-harvest parameters and specific biological indicators for better price realisation

| Gram | | Band - 1 | Band - 2 | Band - 3 | Band - 4 | Band - 5 |
|------|---|---------------|---------------|---------------|---------------|---------------|
| No. | Tradable parameters | 121 | 122 | 123 | 124 | 125 |
| I | Moisture (% by wt) | 01.00 - 10.00 | 10.01 - 11.00 | 11.01 - 12.00 | 12.01 - 13.00 | 13.01 - 14.00 |
| II | Foreign matter (% by wt) | 00.01 - 01.00 | 00.01 - 01.00 | 00.01 - 01.00 | 01.01 - 02.00 | 02.01 - 03.00 |
| III | Admixture / Other edible grains (% by wt) | 01.00 - 02.00 | 01.00 - 02.00 | 01.00 - 02.00 | 02.01 - 03.00 | 03.01 - 04.00 |
| IV | Damaged / immature & Shriveled grains (% by wt) | 01.00 - 04.00 | 01.00 - 04.00 | 01.00 - 04.00 | 04.01 - 05.00 | 05.01 - 07.00 |
| V | Weevilled Grains (% by count) | 01.00 - 03.00 | 01.00 - 03.00 | 01.00 - 03.00 | 03.01 - 06.00 | 06.01 - 10.00 |



Dynamic Crop Calendar (DCC)

It is a real-time tool that tracks and forecasts stresses and their severity by commodity, variety and phenophase. The DCC helps estimate crop health, yield and risk for individual fields at various temporal and geo-spatial levels. DCC also helps in customised monitoring, alert generation and advisory activities.

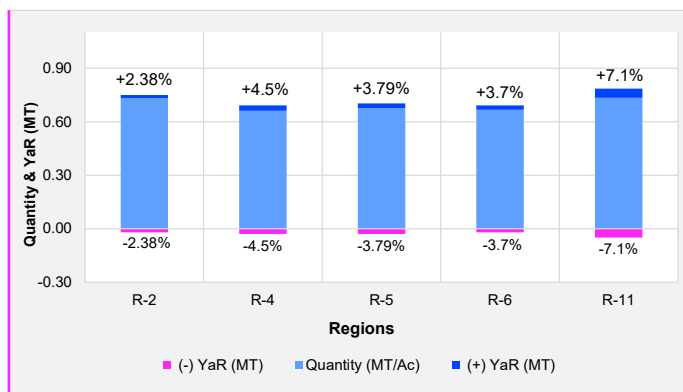


NOTE: CR Club Root, DM Doney Mildew, SR Sclerotinia Rot, PB Painted Bug, SF Sawfly, RH Relative Humidity



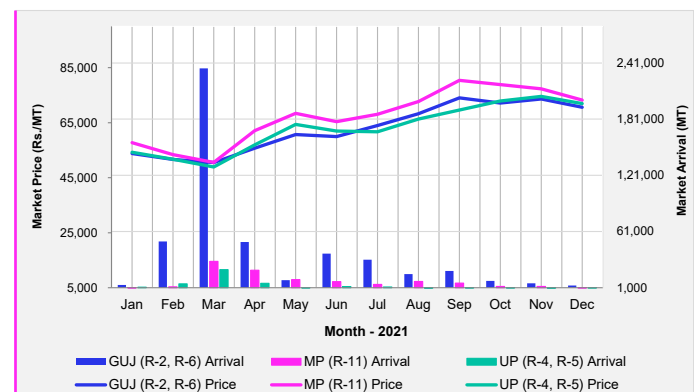
Yield at Risk (YaR) - Stability

The fluctuation/risk in yield or productivity varies from region to region. The region-wise variation on the yield is depicted in the graph below.



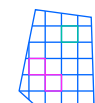
Price Volatility

The monthly fluctuations in price for different benchmark markets are shown below.



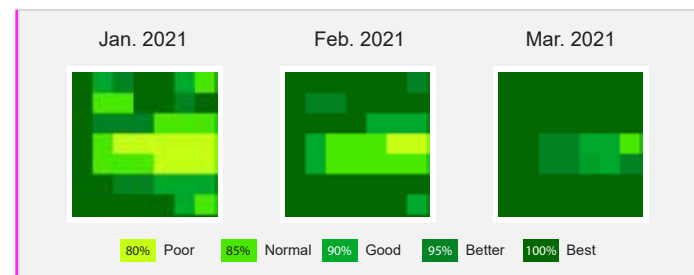
Aerial Photo

Aerial photo provides the visual representation of a the field periodically.



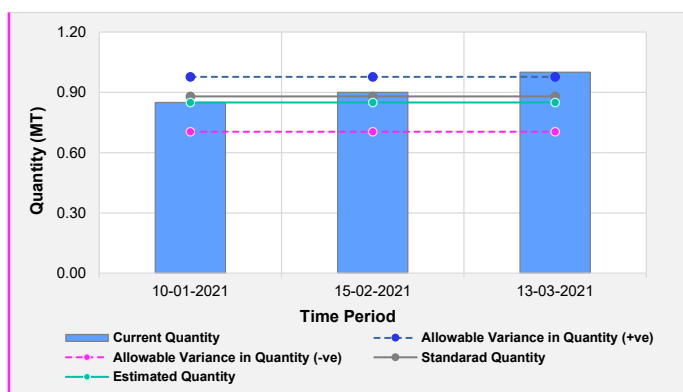
Multispectral Yield Analysis

Tool that provides a Normalised Differential Vegetation Index (NDVI) analysis of individual fields to ground-truth indices. It is standardised across time periods for quick visual interpretation.



Ground-Truth Risk Report

Real-time estimation of yield and its threshold at various stages of crop growth, based on field monitoring of plant health and detection of stress.



Multispectral Analysis

Normalised Differential Vegetation Index (NDVI) comparison of field versus regional indices across commodity, variety and phenophase.

