



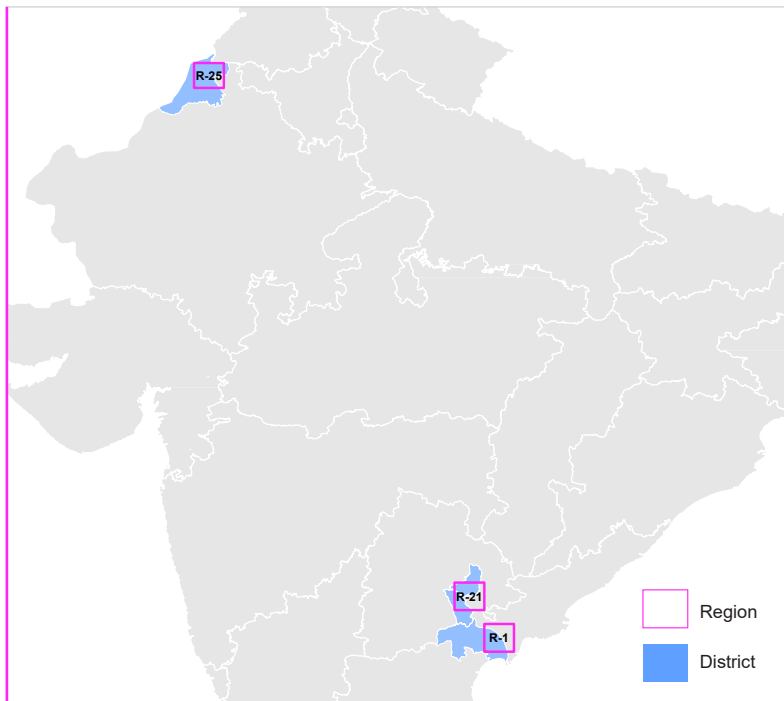
MOONG



Focus Regions

Green gram is popularly known as moong in India. Green gram is one of the main pulse crops of India. It is a rich source of protein along with fiber and iron. India is a major producer of green gram in the world and the major green gram producing states include Madhya Pradesh, Maharashtra, Uttar Pradesh, Punjab, Andhra Pradesh, Rajasthan, Karnataka, and Tamil Nadu.

| Metric Tons (MT) | | | | | |
|------------------|----------------|------------|----------------------|----------------------|--------------------------------|
| Region ID. | State | Production | Risk Free Production | Available Production | Available Risk Free Production |
| R-25 | Rajasthan | 9,224 | 7,695 | 922 | 770 |
| R-21 | Telangana | 8,293 | 7,202 | 829 | 720 |
| R-1 | Andhra Pradesh | 7,709 | 7,655 | 771 | 766 |



Major varieties grown in different agro-climatic zones of India

| Agro-climatic zone | State | Region ID. | Major Districts | Varieties |
|---------------------------------------|----------------|------------|-----------------------|--|
| Eastern Coastal Plains & Hills (ECPH) | Andhra Pradesh | R-1 | Guntur | IPU-0208, Yadadri, Sri Rama, COGG-912, IPU 02-43, LU 391, TU 40, LBG 787, VBN 8, Trombay apsara (TM-96-2), MGG 347, LAM-460, Kamadeva (OUM-11-5), Madhira Pesara 347, IPM 2-14, MGG 347, MGG 207 |
| Southern Plateau & Hills (SPH) | Telangana | R-21 | Mahabubabad, Suryapet | IPU-0208, Yadadri, Sri Rama, COGG-912, IPU 02-43, LU 391, TU 40, LBG 787, VBN 8, Trombay apsara (TM-96-2), MGG 347, LAM-460, Kamadeva (OUM-11-5), Madhira Pesara 347, IPM 2-14, MGG 207 |
| Western Dry Zone (WDZ) | Rajasthan | R-25 | Sri Ganganagar | KUG 479, Sattya (MH-2-15), Pusa Vishal, Ganga-8 (Gangotri), Ganga-1 (Jamnotri), IPM 02-3, Pusa Vishal, RMG 344 (DHANU), RMG 492, RMG 975, MSJ 118 |



Seasonal Calendar

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

| Agro-climatic zone | Region | Jun | Jul | Aug | Sep | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May |
|--------------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| ECPH | R-1 | | | | | | | | | | | | |
| | | | | | | | | | | | | | |
| SPH | R-21 | | | | | | | | | | | | |
| WDZ | R-25 | | | | | | | | | | | | |

Note: ECPH Eastern Coastal Plains & Hills, SPH Southern Plateau & Hills, WDZ Western Dry Zone

Sowing Mid season Harvesting



Contract Summary

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

| | |
|----------------------------|---|
| Lot ID | LOT02MO09 |
| HSN Code | 7133100 |
| Commodity | Moong (Green Gram) |
| Variety | IPU-0208 |
| Grade | Grade-I (Band-III) |
| Aggregation Unit | Metric Tons (MT) |
| Minimum Lot Size | 8.00 MT |
| Bid Window Termination | 48 Hr |
| Allowable Lot Variance (+) | 0.79 MT |
| Allowable Lot Variance (-) | 1.58 MT |
| Rights per Lot (No.) | 5 |
| Current Lot Size | 9.50 MT |
| Contract Price (Per Unit) | ₹ 70,500 |
| Fees | 1.00% |
| Taxes | 0.00% |
| Packaging Size (Per Bag) | 50 Kg |
| Contract Value | ₹ 6,76,448 |
| Logistic Hub Location | Kalpna Warehouse, E-128, 129 Udyog Vihar, Sriganganagar, Ganganagar, Rajasthan 335002 |



Quality Specifications

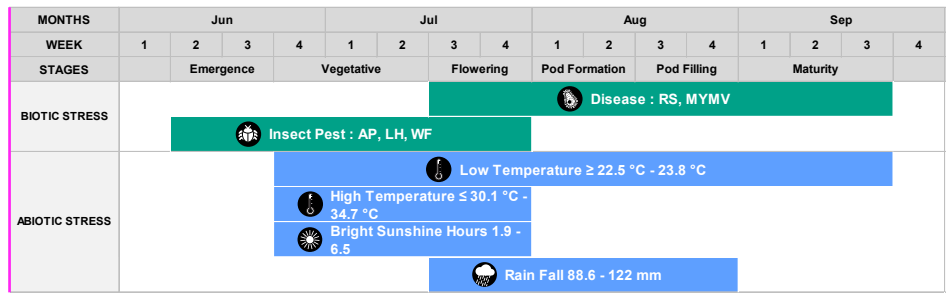
Quality by both standard post-harvest parameters and specific biological indicators for better price realisation

| No. | Tradable parameters | Band - 131 | Band - 132 | Band - 133 | Band - 134 | Band - 135 |
|-----|--------------------------------|---------------|---------------|---------------|---------------|---------------|
| I | Moisture (% by wt) | 01.00 - 09.00 | 01.00 - 09.00 | 01.00 - 10.00 | 01.00 - 12.00 | 01.00 - 14.00 |
| II | Foreign matter (% by wt) | 00.01 - 01.00 | 00.01 - 01.00 | 00.01 - 01.00 | 00.01 - 01.50 | 00.01 - 02.00 |
| III | Other edible grains (% by wt) | 00.01 - 01.00 | 00.01 - 01.00 | 00.01 - 01.00 | 00.01 - 02.00 | 00.01 - 03.00 |
| IV | Damaged grains (% by wt) | 00.01 - 00.50 | 00.51 - 01.00 | 00.01 - 02.50 | 00.01 - 03.50 | 00.01 - 05.00 |
| V | Weevil Grains (% by count) | 01.00 - 03.00 | 01.00 - 03.00 | 01.00 - 03.00 | 01.00 - 05.00 | 01.00 - 10.00 |
| VI | Admixture (% by wt) | 00.01 - 01.00 | 00.01 - 01.00 | 00.01 - 01.00 | 00.01 - 02.00 | 00.01 - 03.00 |
| VII | Immature & Shriveled (% by wt) | 00.01 - 01.00 | 00.01 - 01.00 | 00.01 - 01.00 | 00.01 - 02.00 | 00.01 - 03.00 |



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.

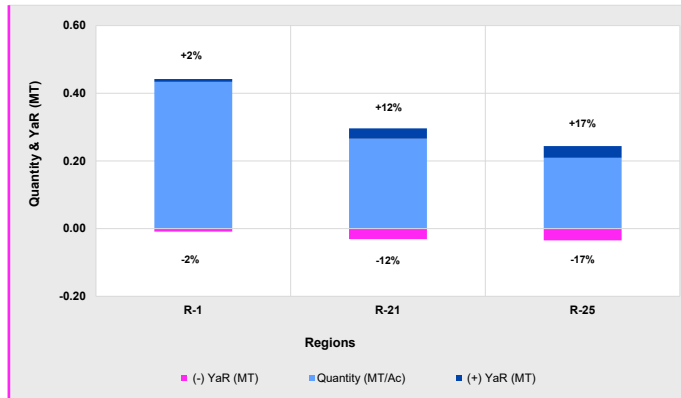


Note: RS Rust, MYMV Mung Yellow mosaic Virus, AP Aphids, LH Leaf Hopper, WF White Fly



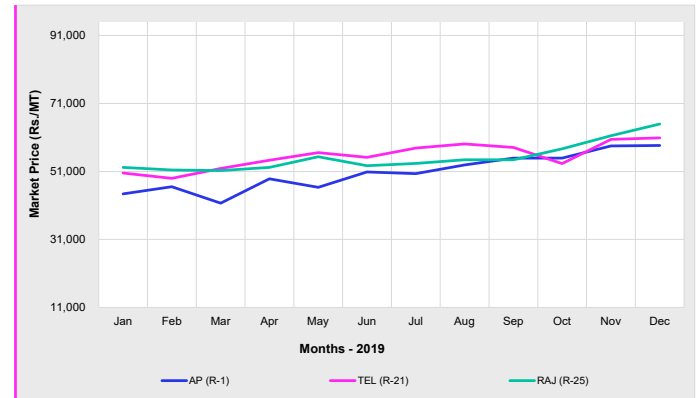
Yield at Risk (YaR) - Stability

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.



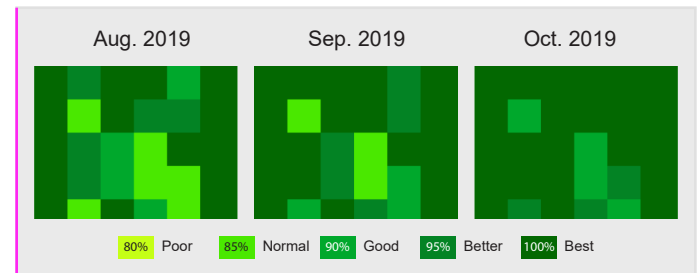
Aerial Photo

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



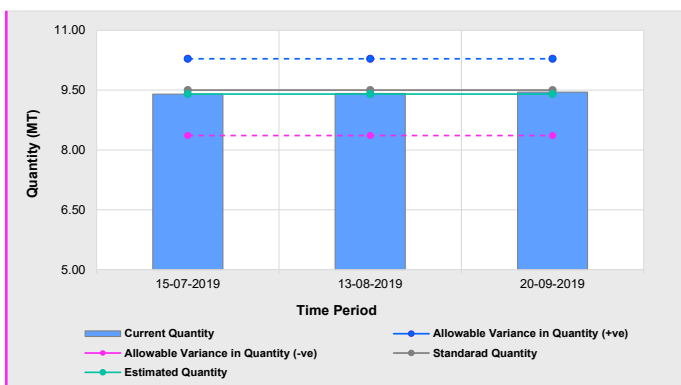
Multispectral Yield Analysis

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.

