



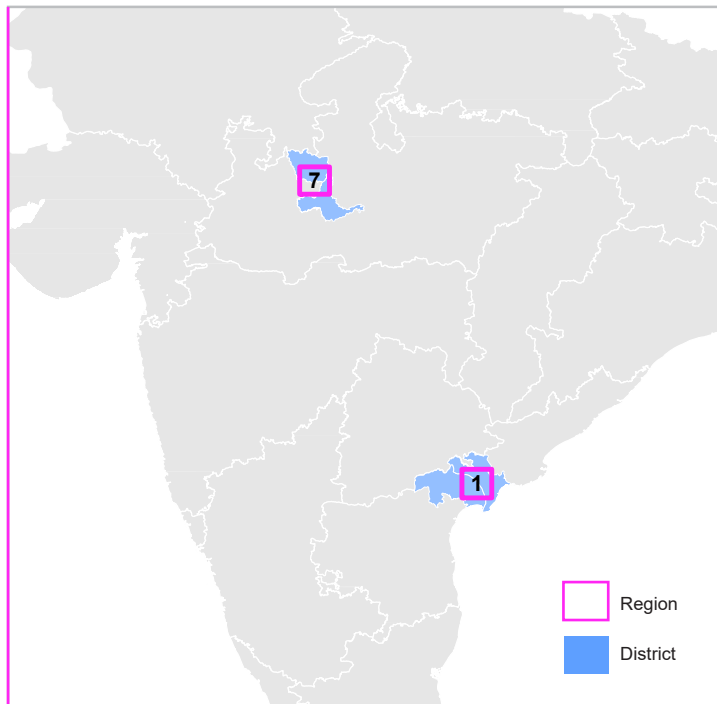
MOONG



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-1	Andhra Pradesh	8,135	7,857	814	786
R-7	Madhya Pradesh	7,628	6,856	763	686



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, Krishna	IPU-0208, VBG-04-008, Yadadri, Sri Rama, COGG-912, IPU 02-43, LU 391, VBG 04-008, 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
Central Plateau and Hills (CPH)	Madhya Pradesh	R-7	Rajgarh, Sehore	Khargaon 1, Krishna 11, Jawahar 45, Kopergaon, Mohini (S-8), PS 16, Pant Moong 3, Pusa 105, ML 337, PDM 11



Seasonal Calendar

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

Agro-climatic zone	Region	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May
ECPH	R-1			Rabi					
CPH	R-7					Summer			

Note: ECPH Eastern Coastal Plains & Hills, CPH Central Plateau & Hills

■ 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	Khargaon 1
Grade	Grade-I (Band-III)
Aggregation Unit	Metric Tons (MT)
Minimum Lot Size	11.00 MT
Bid Window Termination	48 Hr
Allowable Lot Variance (+)	1.1 MT
Allowable Lot Variance (-)	2.2 MT
Rights per Lot (No.)	3
Current Lot Size	10.00 MT
Contract Price (Per Unit)	₹ 58,900
Fees	1.00%
Taxes	0.00%
Packaging Size (Per Bag)	50 Kg
Contract Value	₹ 5,94,890
Logistic Hub Location	Khandelwal Warehouse corporation Sandawata, Rajgarh Madhya Pradesh - 465674



Quality Specifications

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

Moong		Band - 1	Band - 2	Band - 3	Band - 4	Band - 5
No.	Tradable parameters	131	132	133	134	135
I	Moisture (% by wt)	01.00 - 09.00	09.01 - 10.00	10.01 - 11.00	11.01 - 12.00	12.01 - 14.00
II	Foreign matter (% by wt)	00.01 - 01.00	00.01 - 01.00	00.01 - 01.00	01.01 - 01.50	01.51 - 02.00
III	Other edible grains (% by wt)	00.01 - 01.00	00.01 - 01.00	00.01 - 01.00	01.01 - 02.00	02.01 - 03.00
IV	Damaged grains (% by wt)	00.01 - 00.50	00.51 - 01.00	01.01 - 02.50	02.51 - 03.50	03.51 - 05.00
V	Weevilled Grains (% by count)	01.00 - 03.00	01.00 - 03.00	01.00 - 03.00	03.01 - 05.00	05.01 - 10.00
VI	Admixture (% by wt)	00.01 - 01.00	00.01 - 01.00	00.01 - 01.00	01.01 - 02.00	02.01 - 03.00
VII	Immature & Shriveled (% by wt)	00.01 - 01.00	00.01 - 01.00	00.01 - 01.00	01.01 - 02.00	02.01 - 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 wise. The DCC helps to 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.

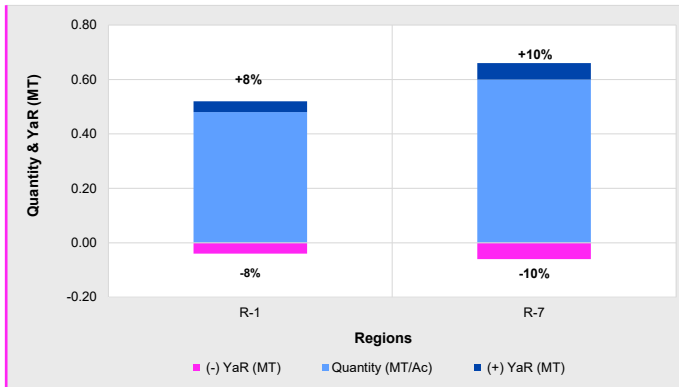
MONTHS	Jun				Jul				Aug				Sep			
WEEK	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
STAGES	Emergence				Vegetative				Flowering				Pod Formation			
BIOTIC STRESS									Disease : RS, MYMV							
	Insect Pest : AP, LH, WF															
					Duration of wet spell: > 50 mm for 4 Days											
					Hail storm											
									Waterlogged soils							

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



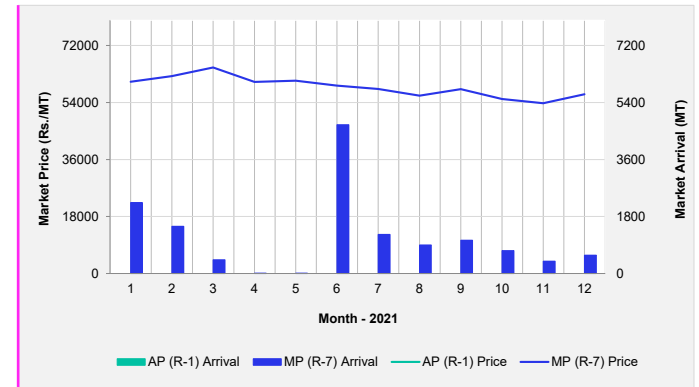
Yield at Risk (YaR) - Stability

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.



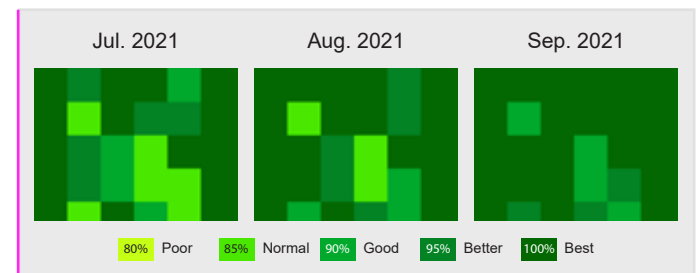
Aerial Photo

Aerial photo provides the visual representation of the field periodically.



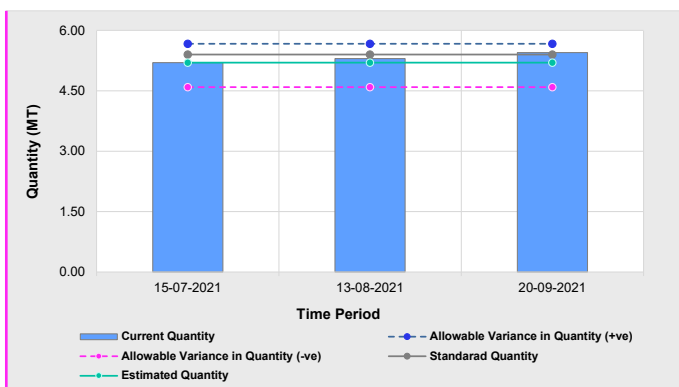
Multispectral Yield Analysis

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.

