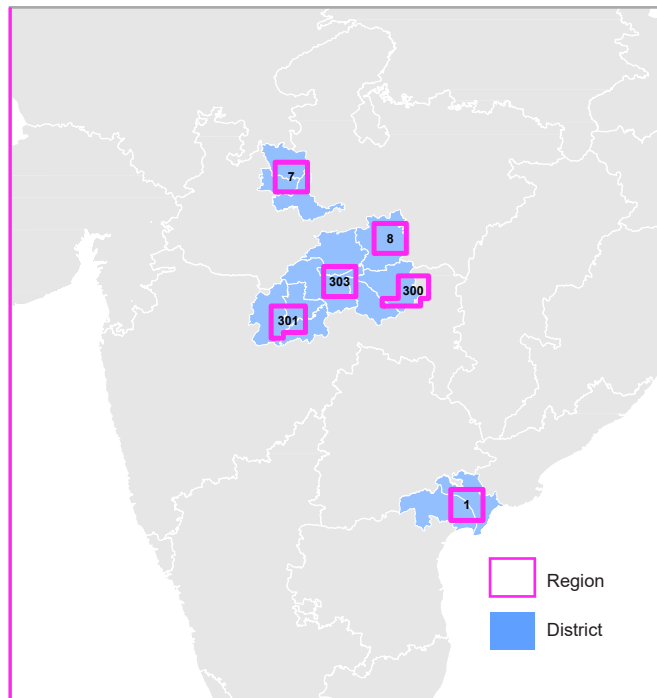


Gram known as 'Chickpea', 'Bengal gram' or 'Chana' is the most important pulse crop of India. India, Pakistan, Ethiopia, Burma and Turkey are the main gram growing countries. India is the largest producer of Bengal gram in the world, contributing nearly 68.13% of total world production. Production of the gram is extensive in central and southern parts of India such as Madhya Pradesh, Rajasthan, Uttar Pradesh, Haryana, Maharashtra, and Punjab.

Region ID.	State	Production	Risk Free Production	Metric Tons (MT)	
				Available Production	Available Risk Free Production
R-7	Madhya Pradesh	79,915	72,247	7,991	7,225
R-8	Madhya Pradesh	48,494	37,135	4,849	3,713
R-1	Andhra Pradesh	9,254	8,741	925	874
R-300	Maharashtra	33,318	26,961	3,332	2,696
R-301	Maharashtra	57,835	52,155	5,784	5,216
R-303	Maharashtra, Madhya Pradesh	37,578	32,112	3,758	3,211

Focus Regions



Major varieties grown in different agro-climatic zones of India

Agro-climatic zone	State	Region ID.	Major Districts	Varieties
Southern Plateau and Hills (SPH)	Andhra Pradesh	R-1	Krishna, Guntur	NBeG 119, ICCV 2, ICCV 96029, JG-11, PKV Kabuli 2 (KAK-2), Nandyal Gram 49, NBeG 47, JG-130, Vijay (PG 81-1-1), LBeG 7, Phule G-95311
Central Plateau and Hills (CPH)	Madhya Pradesh	R-7	Shajapur, Rajgarh, Sehore	IPCK 2002-29, JAKI-9218, Jawahar Gram 226 (JG 226), JCK-3, JG-36, JG-16, JGK-5, JSC-56, Lam shanaya (LBeG-7), Raj Vijay Kabuli Gram 101 (RVKG-101), Raj Vijay Kabuli Gram 201 (RVKG-201), PKV Kabuli 2 (KAK-2), Vishal, JG-12, RVKG-111, JG-315, JG-74, C-104
		R-8	Chhindwara	
Western Plateau and Hills (WPH)	Maharashtra	R-300	Nagpur	JAKI-9218, PKV Harita, PDKV-Kanchan, PKV Kabuli-4, Vijay (PG 81-1-1), RVG-204, Phule Vikram, JG-16, Vishal, Digvijay, BDNGK-798, PKV Kabuli 2 (KAK-2)
		R-301	Buldhana, Akola, Washim	
	Maharashtra, Madhya Pradesh	R-303	Wardha, Betul, Amravati	



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
SPH	R-1								
CPH	R-7								
	R-8								
WPH	R-300, R-301, R-303								

Note: CPH Central Plateau and Hills, SPH Southern Plateau and Hills, WPH Western Plateau and Hills

■ Sowing ■ Mid season ■ Harvesting



Contract Summary

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

Lot ID	LOT07GR12
HSN Code	07132000
Commodity	Gram
Variety	JG 226
Grade	Grade-I (Band-III)
Aggregation Unit	Metric Tons (MT)
Minimum Lot Size	12.00 MT
Bid Window Termination	48 Hr
Allowable Lot Variance (+)	2.40 MT
Allowable Lot Variance (-)	1.20 MT
Rights per Lot (No.)	3
Current Lot Size	13.00 MT
Contract Price (Per Unit)	₹ 45,550
Fees	2.00%
Taxes	0.00%
Packaging Size (Per Bag)	50 Kg
Contract Value	₹ 6,03,993
Logistic Hub Location	Maheshwari Warehousing, Teh Moman (V) & (P), Barodia Dist Shajapur MP, 465697



Quality Specifications

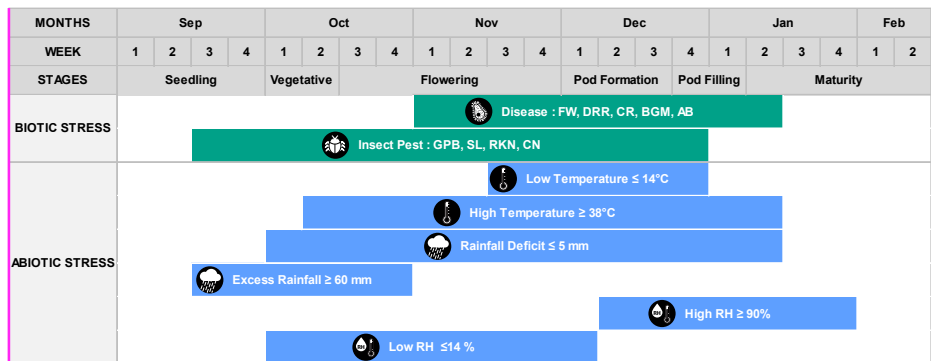
Quality by both standard post-harvest parameters and specific biological indicators for better price realisation

No.	Gram	Band - 1	Band - 2	Band - 3	Band - 4	Band - 5
	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 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.

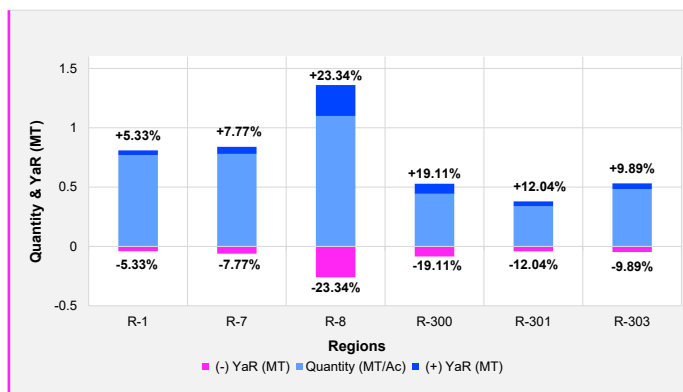


NOTE: FW Fusarium Wilt, DRR Dry Root Rot, BGM Botrytis Grey Mould, AB Ascochyta Blight, GPB Gram Pod Borer, SL Semilooper, RKN Root Knot Nematode, CN Cyst Nematode



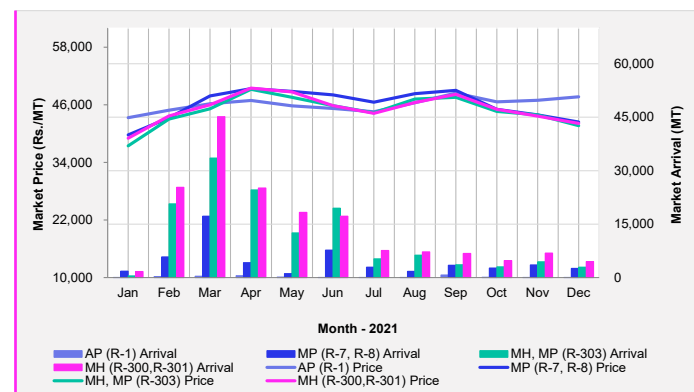
Yield at Risk (YaR) - Stability

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.



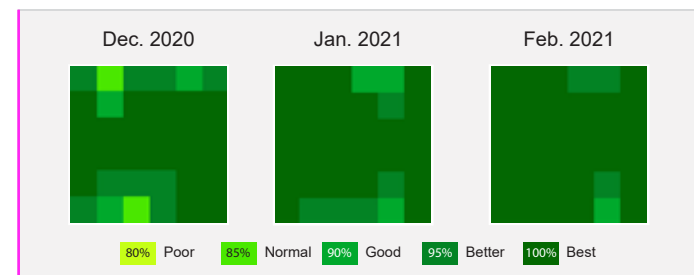
Aerial Photo

Aerial photo provides the visual representation of the field periodically.



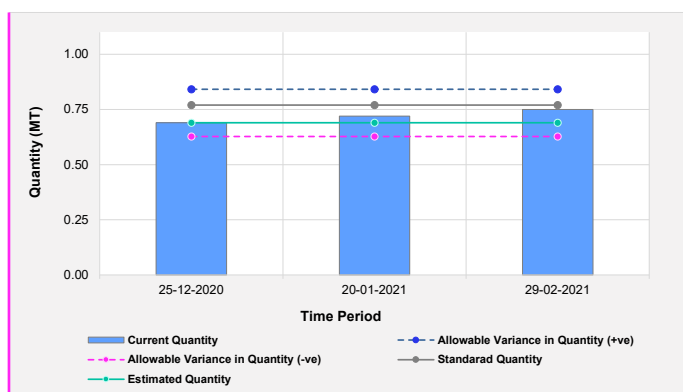
Multispectral Yield Analysis

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.

