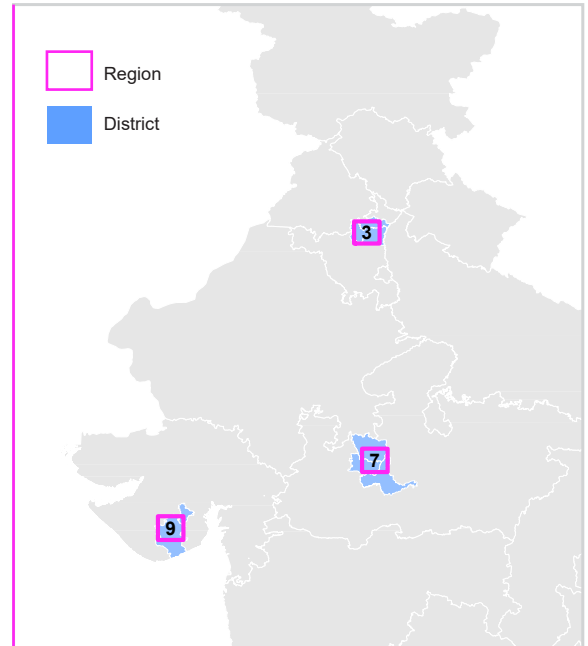




Focus Regions



India is the second largest onion producing country in the world after China. Indian onions are famous for their pungency and are available round the year hence have a lot of demand in the world. Major export markets are Bangladesh, Malaysia, the United Arab Emirates (UAE), Sri Lanka and Nepal. Major onion producing states include Maharashtra, Karnataka, Gujarat, Bihar, Madhya Pradesh, Andhra Pradesh, Rajasthan, Haryana, and Uttar Pradesh.

Region ID.	State	Production	Risk Free Production	Metric Tons (MT)	
				Available Production	Available Risk Free Production
R-7	Madhya Pradesh	2,19,722	2,15,510	21,972	21,551
R-3	Haryana	59,601	56,960	5,960	5,696
R-9	Gujarat	33,358	30,885	3,336	3,088

Major varieties grown in different agro-climatic zones of India

Agro-climatic zone	State	Region ID.	Major Districts	Varieties
Central Plateau & Hills (CPH)	Madhya Pradesh	R-7	Rajgarh, Sehore, Shajapur	Bhima Shakti, Bhima Shweta, N-53, Early Grano, Agrifound Dark Red, Agrifound Light Red, Agrifound White
Trans-Gangetic Plains (TGP)	Haryana	R-3	Kaithal, Kurukshetra, Karnal	Bhima Kiran, Bhima Shakti, Bhima Shweta, N-53, Early Grano, Agrifound Dark Red, Agrifound Light Red, NHRDF-Red
Gujarat Plateau & Hills (SPH)	Gujarat	R-9	Amreli, Botad	Bhima super, Bhima Dark Red, N-53, Baswant-780, Bhima red, Agrifound Dark Red, Bhima Raj, Bhima Shakti, Agrifound Light Red, NHRDF-Red, NHRDF-Red-2, Bhima Shweta, Bhima Shubhra, Agrifound White, Fule safed, N-257-9-1, Phule Suvarna, N 241, Pusa Red



Seasonal Calendar

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

Agro-climatic zone	Region	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun
CPH	R-7														
TGP	R-3														
GPH	R-9														

Note: GPH Gujarat Plateau & Hills, CPH Central Plateau & Hills, TGP Trans-Gangetic Plains

■ Sowing ■ Mid season ■ Harvesting



Contract Summary

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

Lot ID	LOT14ON03
HSN Code	07031010
Commodity	Onion
Variety	Bhima Shakti
Grade	Grade-I (Band-III)
Aggregation Unit	Metric Tons (MT)
Minimum Lot Size	10.00 MT
Bid Window Termination	48 Hr
Allowable Lot Variance (+)	2.00 MT
Allowable Lot Variance (-)	1.00 MT
Rights per Lot (No.)	1
Current Lot Size	10.50 MT
Contract Price (Per Unit)	₹ 17,100
Fees	1.00%
Taxes	0.00%
Packaging Size (Per Bag)	50 Kg
Contract Value	₹ 1,72,710
Logistic Hub Location	Madhur Mahakaal Warehouse, Ashta Road, Distt-Shajapur, Madhya Pradesh



Quality Specifications

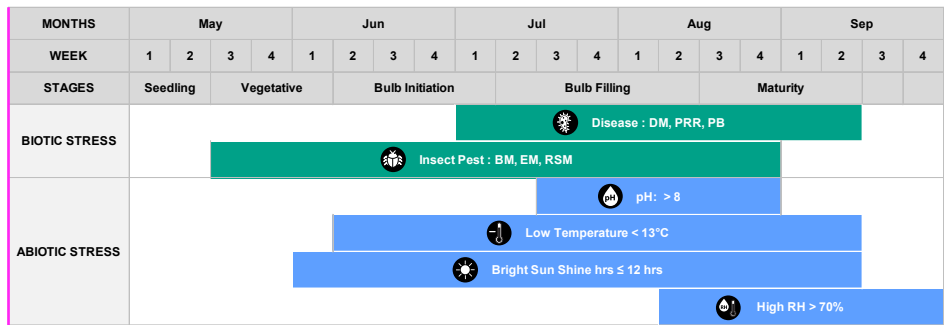
Quality by both standard post-harvest parameters and specific biological indicators for better price realisation

No.	Onion	Band - 1	Band - 2	Band - 3	Band - 4	Band - 5
	Tradable parameters	611	612	613	614	615
I	Size (diameter of the equatorial section) mm	55.01 - 65.00	45.01 - 55.00	35.01 - 45.00	25.01 - 35.00	≤ 25.00
II	Defects (% by count)					
	Cut (5-15mm long)	01.00 - 05.00	01.00 - 05.00	01.00 - 05.00	05.01 - 10.00	10.01 - 15.00
	Double split	01.00 - 02.00	01.00 - 02.00	01.00 - 02.00	02.01 - 05.00	> 05.01
	Sprouted	01.00 - 02.00	01.00 - 02.00	01.00 - 02.00	02.01 - 05.00	> 05.01
	Rooting	01.00 - 02.00	01.00 - 02.00	01.00 - 02.00	02.01 - 05.00	> 05.01



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.

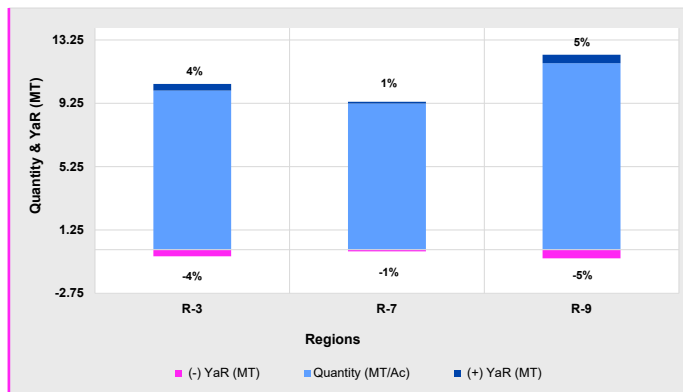


Note: DM Downy Mildew, PRR Pink Root Rot, PB Purple Blotch, BM Bulb Mite, EM Eriophyid Mite, RSM Red Spider Mite



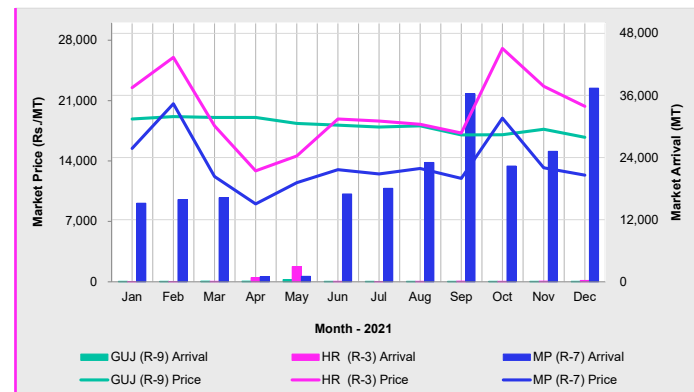
Yield at Risk (YaR) - Stability

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.



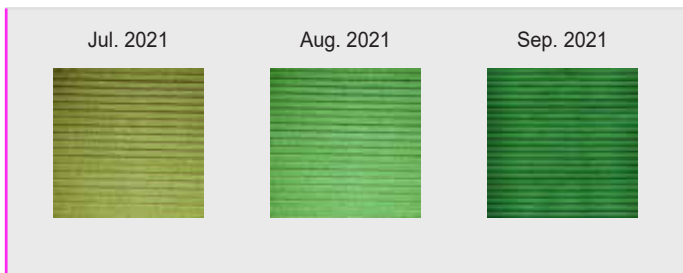
Price Volatility

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



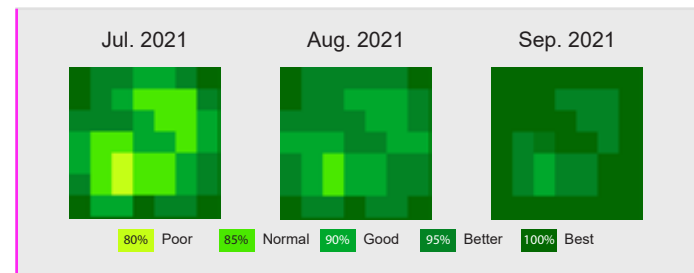
Aerial Photo

Aerial photo provides the visual representation of the field periodically.



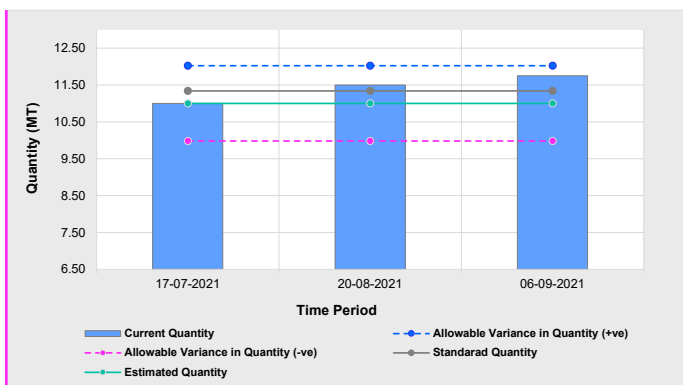
Multispectral Yield Analysis

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.

