

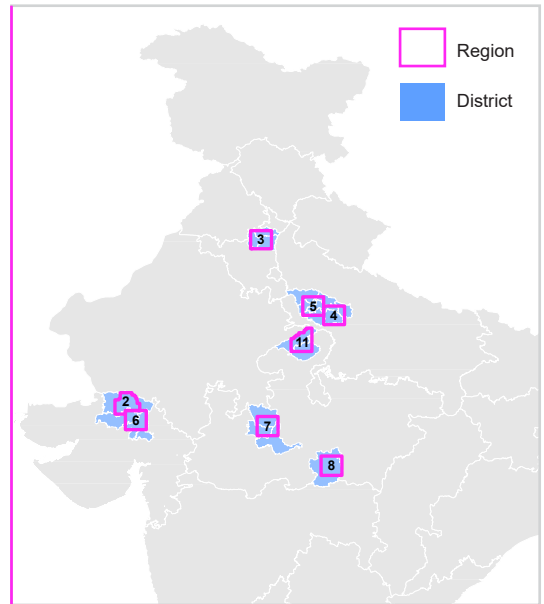
POTATO



Potato is the largest non-cereal food crop worldwide and ranked as the world's fourth most important food crop after rice, wheat and maize. In India, it is grown in about 2.11 lakh ha area with a production of 43.4 metric tonnes. Uttar Pradesh stands first in the area and production of potatoes followed by West Bengal. Other major growing states are Himachal Pradesh, Punjab, Madhya Pradesh, Gujarat, Maharashtra, Karnataka, Bihar and Assam.

Region ID.	State	Production	Risk Free Production	Available Production	Metric Tons (MT)
					Available Risk Free Production
R-5	Uttar Pradesh	15,70,254	14,91,656	31,405	29,833
R-4	Uttar Pradesh	8,34,633	8,13,132	33,385	32,525
R-2	Gujarat	8,24,638	8,05,177	32,986	32,207
R-3	Haryana	2,45,726	2,40,305	24,573	24,031
R-6	Gujarat	2,10,842	2,03,588	21,084	20,359
R-7	Madhya Pradesh	1,01,304	1,00,282	10,130	10,028
R-11	Madhya Pradesh	90,477	90,456	9,048	9,046
R-8	Madhya Pradesh	83,468	83,468	8,347	8,347

Focus Regions



Major varieties grown in different agro-climatic zones of India

Agro-climatic zone	State	Region ID.	Major Districts	Varieties
Trans-Gangetic Plains (TGP)	Haryana	R-3	Kaithal, Karnal, Kurukshetra	Kufri Anand, Kufri Arun, Kufri Badshah, Kufri Chipsona-1, Kufri Chipsona-2, Kufri Chipsona-3, Kufri Pushkar, Kufri Sadabahar, Kufri Sutlej, Kufri Surya, Kufri Jyoti, Kufri Garima, Kufri Gaurav, Kufri Ashoka, Kufri Chandramukhi, Kufri Jawahar, Kufri Khyati, Kufri Pukhraj
Central Plateau & Hills (CPH)	Madhya Pradesh	R-7	Rajgarh, Sehore, Shajapur	Kufri Chandramukhi, Kufri Badshah, Kufri Jawahar, Kufri Pukhraj, Kufri Jyoti, Kufri Sindhuri, Kufri Arun, Kufri Anand, Kufri Chipsona-1, Kufri Chipsona-2, Kufri Chipsona-3, Kufri Pushkar, Kufri Sadabahar, Kufri Sutlej, Kufri Surya, Kufri Garima, Kufri Bahar, Kufri Frysona, Kufri Lauvkar
		R-8	Chhindwara	
		R-11	Gwalior, Morena	
Upper Gangetic Plains (UGP)	Uttar Pradesh	R-4	Etah, Farrukhabad, Mainpuri	Kufri Anand, Kufri Arun, Kufri Badshah, Kufri Chipsona-1, Kufri Chipsona-2, Kufri Chipsona-3, Kufri Pushkar, Kufri Sadabahar, Kufri Sutlej, Kufri Surya, Kufri Jyoti, Kufri Garima, Kufri Gaurav, Kufri Ashoka, Kufri Chandramukhi, Kufri Jawahar, Kufri Khyati, Kufri Pukhraj
		R-5	Aligarh, Etah, Firozabad, Hathras, Kasganj	
Gujarat Plains & Hills (GPH)	Gujarat	R-2	Banas Kantha	Kufri Chandramukhi, Kufri Badshah, Kufri Jawahar, Kufri Pukhraj, Kufri Jyoti, Kufri Sindhuri, Kufri Arun, Kufri Anand, Kufri Chipsona-1, Kufri Chipsona-2, Kufri Chipsona-3, Kufri Pushkar, Kufri Sadabahar, Kufri Sutlej, Kufri Surya, Kufri Garima, Kufri Bahar, Kufri Frysona
		R-6	Gandhinagar, Mahesana, Patan	



Seasonal Calendar

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

Agro-climatic zone	State	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr
TGP	R-3					Rabi						
UGP	R-4, R-5					Rabi						
GPH	R-2, R-6							Rabi				
CPH	R-7, R-8, R-11						Rabi					

Note: TGP Trans-Gangetic Plains, UGP Upper Gangetic Plains, GPH Gujarat Plains & Hills, MGP Middle Gangetic Plains, CPH Central Plateau & Hills

■ Sowing ■ Mid season ■ Harvesting



Contract Summary

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

Lot ID	LOT15PT07
HSN Code	07019000
Commodity	Potato
Variety	Kufri Anand
Grade	Grade-2 (Band-I)
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	9.90 MT
Contract Price (Per Unit)	₹ 8,800
Fees	0.02%
Taxes	2.00%
Packaging Size (Per Bag)	55 Kg
Contract Value	₹ 88,880
Logistic Hub Location	Patel Warehouse, Near FCI Godown, Rampur Road, Viramgam, Ahmedabad, Gujarat 382150



Quality Specifications

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

Potato		Band - 1	Band - 2	Band - 3	Band - 4	Band - 5
No.	Tradable parameters	621	622	623	624	625
I	Size (diameter of the equatorial section) mm	60.01 - 70.00	50.01 - 60.00	40.01 - 50.00	25.01 - 40.00	≤ 25.00
II	Defects (% by count)					
	Cracks/cut (5 mm to 20mm)	01.00 - 05.00	01.00 - 05.00	01.00 - 05.00	05.01 - 10.00	> 10.01
	Greening (1-3 sq cm of total surface area)	01.00 - 02.00	01.00 - 02.00	01.00 - 02.00	02.01 - 03.00	> 03.01
	Holes	00.01 - 01.00	00.01 - 01.00	00.01 - 01.00	01.01 - 02.00	> 02.01
	Mechanical injury	01.00 - 02.00	01.00 - 02.00	01.00 - 02.00	02.01 - 03.00	> 03.01



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.

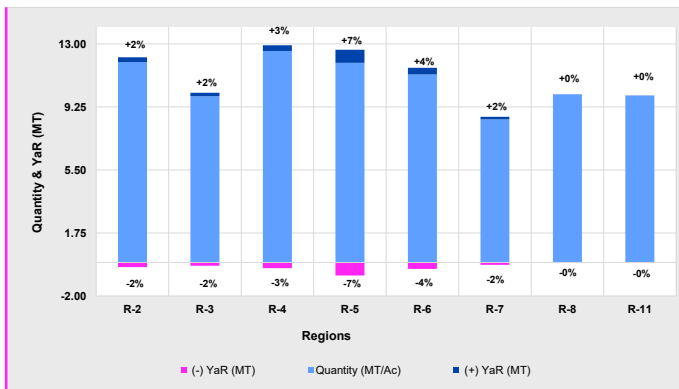
MONTHS	Oct				Nov				Dec				Jan			
WEEK	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4
STAGES	Sprouting				Vegetative				Tuber Initiation				Tuber Development			
BIOTIC STRESS					Disease : BW, SR, BS, LB, LCV											
					Insect Pest: WG, AP, CW, PTM											
ABIOTIC STRESS					Temperature Min < 5°C											
					Temperature Max > 30°C											

NOTE: BW Bacterial Wilt, SR Soft Rot, BS Black Scurf, LB Late Blight, LCV Leaf Curl Virus, WG White Grub, AP Aphids, CW Cut Worms, PTM Potato Tuber Moth



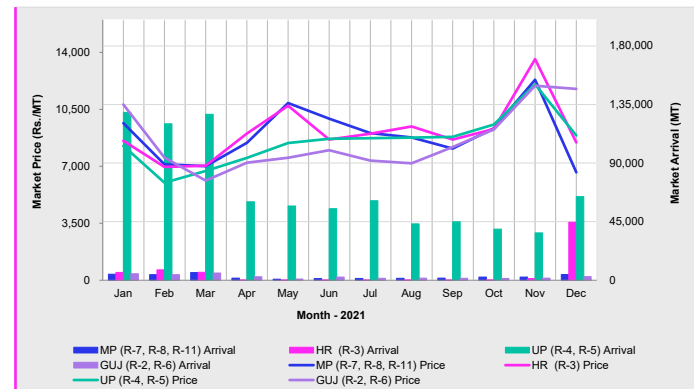
Yield at Risk (YaR) - Stability

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.



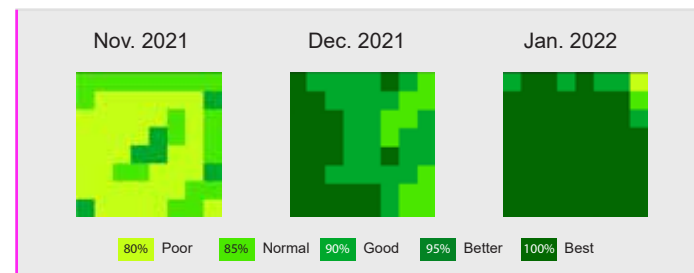
Aerial Photo

Aerial photo provides the visual representation of the field periodically.



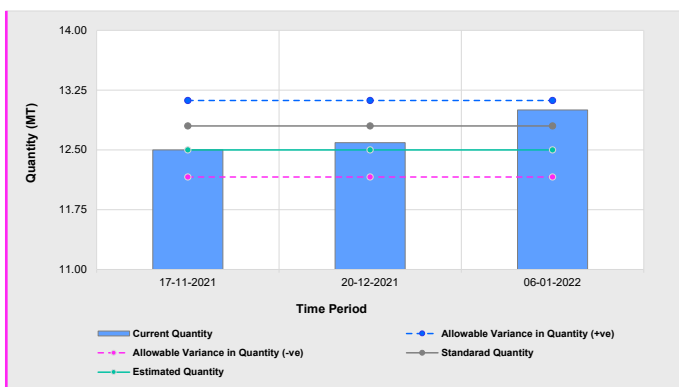
Multispectral Yield Analysis

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.

