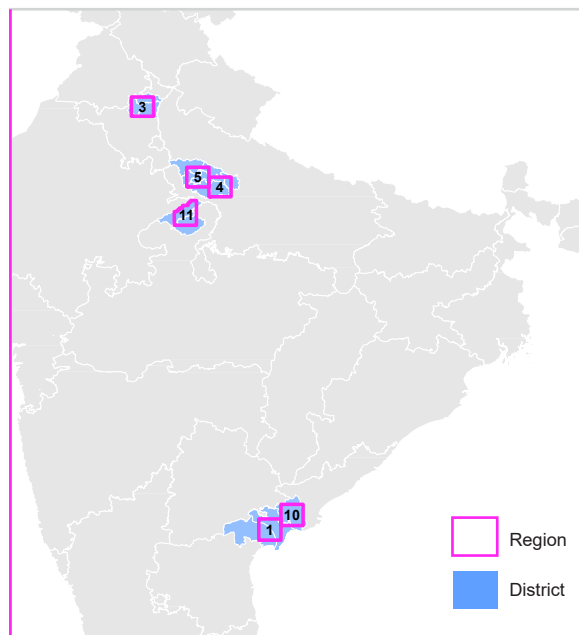


PADDY



Focus Regions



Paddy is the most important human food crop in the world, directly feeding more people than any other crop. In India, it occupies a special status due to its high demand in national & international markets. Major paddy-producing states include West Bengal, Bihar, eastern Uttar Pradesh, eastern Madhya Pradesh, northern Andhra Pradesh, and Odisha. The major export markets are Iran, Saudi Arabia, Iraq, the United Arab Emirates (UAE), Kuwait, Yemen Republic, the United States of America (USA), and the United Kingdom (UK).

Metric Tons (MT)

Region ID.	State	Production	Risk Free Production	Available Production	Available Risk Free Production
R-10	Andhra Pradesh	10,75,224	10,20,142	53,761	51,007
R-1	Andhra Pradesh	6,43,634	6,01,158	51,491	48,093
R-3	Haryana	6,30,786	6,00,831	12,616	12,017
R-4	Uttar Pradesh	1,30,536	1,25,151	13,054	12,515
R-300	Maharashtra	1,04,029	1,00,546	10,403	10,055
R-5	Uttar Pradesh	90,623	87,227	9,062	8,723
R-11	Madhya Pradesh	69,033	61,524	6,903	6,152

Major varieties grown in different agro-climatic zones of India

Agro-climatic zone	State	Region ID.	Major Districts	Varieties
East Coast Plains & Hills (ECPH)	Andhra Pradesh	R-1	Guntur, Krishna	27P61, Arize Tej, CR Dhan 506, CR Sugandh Dhan 907, DRR Dhan 42, DRR Dhan 45, Kanak, Karishma (NPH 8899), CR Dhan 801 (Phalguni), RH- 1531, Sona Masuri
		R-10	West Godavari	
Trans-Gangetic Plains (TGP)	Haryana	R-3	Karnal, Kaithal, Kurukshetra	37P22, NPH 2006 Kohinoor, Pusa 1592, SBH 999 Subeej Sugandh
Upper Gangetic Plains (UGP)	Uttar Pradesh	R-4	Etah, Mainpuri, Farrukhabad	27P31, Arize 6444 Gold, CR Dhan 309, CR Dhan 310, CR Dhan 500, CR Sugandh Dhan 908, CR Sugandh Dhan 909, PAC 801, Pant sugandh Dhan-21, CR Dhan 801 (Phalguni), SBH 999 Subeej Sugandh
		R-5	Aligarh, Etah, Firozabad, Hathras, Kasganj	
Central Plateau and Hills (CPH)	Madhya Pradesh	R-11	Gwalior, Morena	27P36, CR Dhan 205, CR Dhan 306, CR Dhan 310, CR Dhan 802, DDR Dhan 46, JRB-1, JRH-19, RH- 1531, US 382, Chinnor
Western Plateau and Hills (WPH)	Maharashtra	R-300	Nagpur	Jai shriram, CR Sugandh Dhan 909, DDR dhan 46, Kanak, Karjat-10, Pusa RH-10, Ratnagiri-7 Red Rice, Ratnagiri-8, Sahyadri-4, Sahyadri-5, Trombay Karjat Kolam, HMT, Chinnor, Ambe Mohar



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
ECPH	R-1, R-10									
TGP	R-3									
UGP	R-4, R-5									
WPH	R-300									
CPH	R-11									

Note: TGP Trans-Gangetic Plain, UGP Upper Gangetic Plain, CPH Central Plateau and Hills, WPH Western Plateau and Hills, ECPH East Coast Plains & Hills

■ Sowing ■ Mid season ■ Harvesting



Contract Summary

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

Lot ID	LOT45PC10
HSN Code	10061090
Commodity	Paddy Common
Variety	CR Dhan 205
Grade	Grade-2 (Band-I)
Aggregation Unit	Metric Tons (MT)
Minimum Lot Size	12.00 MT
Bid Window Termination	48 Hr
Allowable Lot Variance (+)	2.4 MT
Allowable Lot Variance (-)	1.2 MT
Rights per Lot (No.)	4
Current Lot Size	11.50 MT
Contract Price (Per Unit)	₹ 20,000
Fees	0.02%
Taxes	2.50%
Packaging Size (Per Bag)	50 Kg
Contract Value	₹ 2,35,796
Logistic Hub Location	Sri Gurunanak Warehouse, 9/10 Km, Aligarh Delhi G.T. Road, Opp Tata Kendra Village Bhartari Aligarh, Aligarh, Uttar Pradesh 202001



Quality Specifications

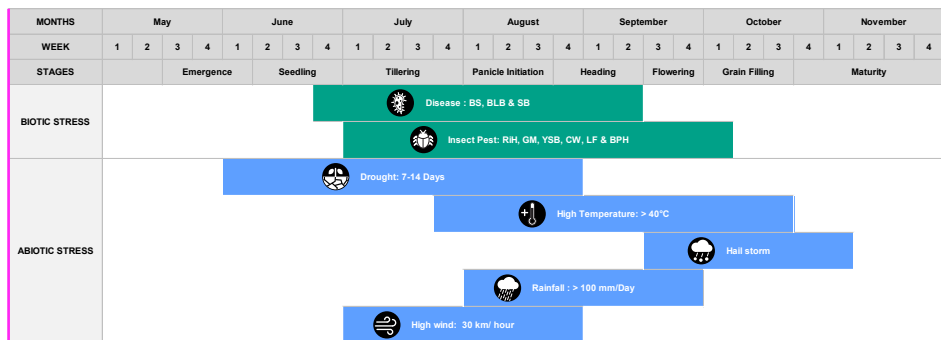
Quality by both standard post-harvest parameters and specific biological indicators for better price realisation

No.	Paddy Tradable Parameter	Band - 1 231	Band - 2 232	Band - 3 233	Band - 4 234	Band - 5 235
I	Moisture (% by wt)	01.00 - 15.00	15.01 - 16.00	16.01 - 17.00	17.01 - 18.00	18.01 - 20.00
II	Admixture (% by wt)	01.00 - 05.00	01.00 - 05.00	05.01 - 10.00	10.01 - 15.00	15.01 - 20.00
III	Immature & Shriveled grains (% by wt)	01.00 - 03.00	01.00 - 03.00	01.00 - 03.00	03.01 - 05.00	05.01 - 07.00
IV	Foreign matter (% by wt)	01.00 - 02.00	01.00 - 02.00	01.00 - 02.00	02.01 - 04.00	04.01 - 06.00
V	Damaged/Discoloured grains & Weevilled Grains (% by wt)	01.00 - 04.00	01.00 - 04.00	01.00 - 04.00	04.01 - 06.00	06.01 - 08.00



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.

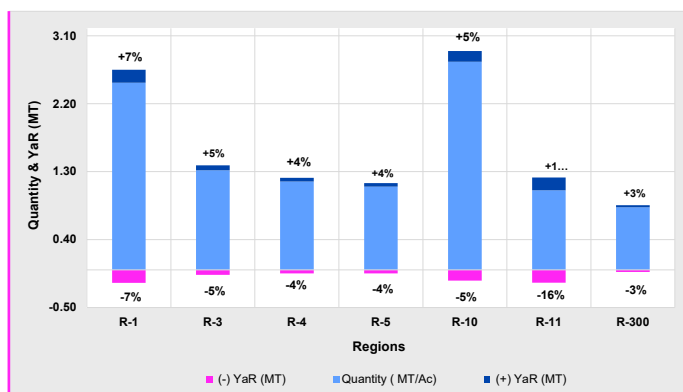


Note: BS-Brown Spot, BLB-Bacterial Leaf Blight, SB-Sheath Blight, RH-Rice Hisspa, GM-Gall Midge, YSB-Yellow Stem Borer, CW-Case Worm, LF-Leaf Folder, BPH-Brown Plant Hopper, BSS-Bright Sunshine Deficit



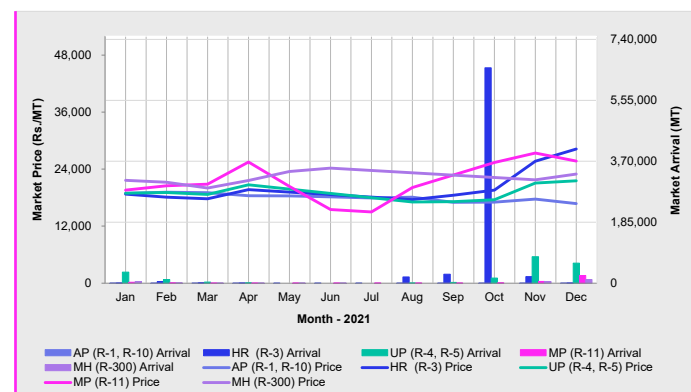
Yield at Risk (YaR) - Stability

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.



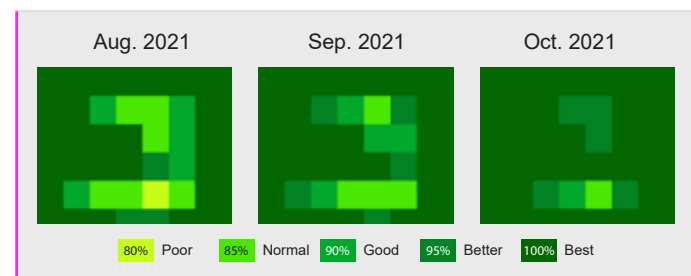
Aerial Photo

Aerial photo provides the visual representation of the field periodically.



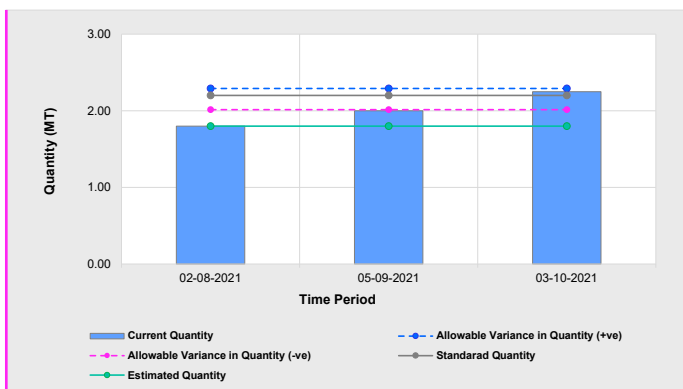
Multispectral Yield Analysis

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.

