

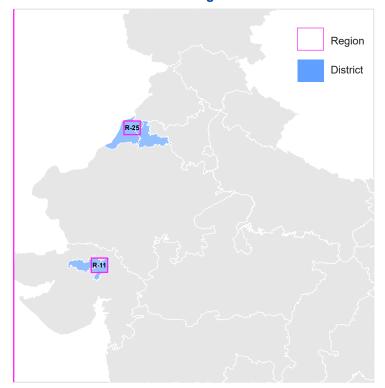


Guar Seed is one of the most famous vegetables, popularly known as "Guar" in India. Guar bean is an annual legume crop grown in India since ancient times for vegetable and fodder purposes. It is extensively cultivated in the rainy season and major producing states are Rajasthan, Haryana, Gujarat, Punjab and to a limited extent in Uttar Pradesh and Madhya Pradesh. Rajasthan is the major producer, accounting for nearly 78% of total cluster bean production in India. The crop produces gum also called guar gum, is a galactomannan polysaccharide extracted from guar beans and is well known for its ability to thicken and stabilize food products and hence is also exported in foreign countries. Major export markets are the United States of America, China, Russia, Norway, and Germany.

#### Metric Tons (MT)

Region ID.	State	Production	Risk Free Production	Available Production	Available Risk Free Production
R-25	Rajasthan	84,145	73,013	8,415	7,301
R-11	Gujarat	12,806	11,736	1,281	1,174

# **Focus Regions**



# Major varieties grown in different agro-climatic zones of India

Agro-climatic zone	State	Region ID.	Major Districts	Varieties
Gujarat Plains and Hills (GPH)	Gujarat	R-11	Mahesana, Patan	Gujarat-1, Gujarat-2, RGC-936, RGC-1002, RGC-1003, RGC-1017, HG-653, HG-884, HG 2-20
Western Dry Region (WDR)	Rajasthan	R-25	Sri Ganganagar, Hanumangarh	RGC-936, RGC-1002, RGC-1003, RGC-1017, HG-653, HG-884, HG-220, RGC-1038, RGC-1031, RGC-1055, RGC-1066



# Seasonal Calendar

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





# **Quality Specifications**

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

	Guar Seed	Band - 1	Band - 2	Band - 3	Band - 4	Band - 5
No.	Tradable parameters	721	722	723	724	725
1	Moisture (% by wt)	01.00 - 08.00	08.01 - 09.00	09.01 - 10.00	10.01 - 11.00	11.01 - 12.00
II	Foreign matter (% by wt)	01.00 - 03.00	01.00 - 03.00	01.00 - 03.00	03.01 - 04.00	04.01 - 05.00
Ш	Admixture/discolored (% by weight)	01.00 - 05.00	05.01 - 08.00	08.01 - 10.00	10.01 - 15.00	15.01 - 20.00



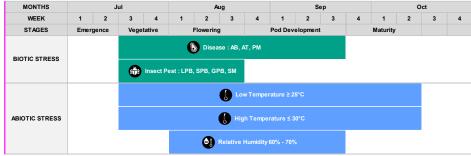
# **Contract Summary**

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

Lot ID	LOT03GS03		
HSN Code	07133910		
Commodity	Guar Seed		
Variety	RGC-1002		
Grade	Grade-I (Band-III)		
Aggregation Unit	Metric Tons (MT)		
Minimum Lot Size	6.00 MT		
Bid Window Termination	48 Hr		
Allowable Lot Variance (+)	0.32 MT		
Allowable Lot Variance (-)	0.64 MT		
Rights per Lot (No.)	5		
Current Lot Size	7.10 MT		
Contract Price (Per Unit)	₹ 38,700		
Fees	1.00%		
Taxes	0.00%		
Packaging Size (Per Bag)	50 Kg		
Contract Value	₹ 2,77,518		
Logistic Hub Location	Paresh, Market Yard, Unava, Mahesana, Gujarat 384002		



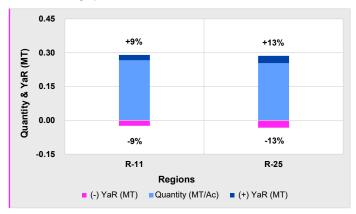
It is a real-time tool that tracks and forecasts stresses and their severity by commodity, variety and phenophase. The DCC helps estimate crop health, yield and risk for individual fields at various temporal and geo-spatial levels. DCC also helps in customised monitoring, alert generation and advisory activities.



Note: AB Alterneria Blight, AT Anthracnose, PM Powdery Mildew, LPB Lycaneid Pod Borer, SPB Spotted Pod Borer, GPB Gram Pod Borer, SM Spider Mite

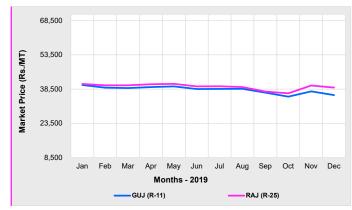
# Yield at Risk (YaR) - Stability

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 a the field periodically.





## **Multispectral Yield Analysis**

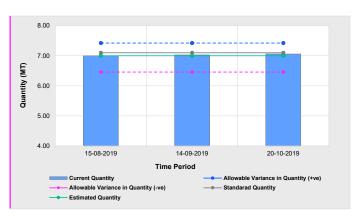
Tool that provides a Normalised Differential Vegetation Index (NDVI) analysis of individual fields to ground-truth indices. It is standardised across time periods for quick visual interpretation.





## **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.

