

INTRODUCTION

Cluster bean popularly known as Guar is an annual legume crop. Guar is very drought-tolerant crop. It is a crop of semi-arid sub-tropical areas spread over North and North West of India and East and South East of Pakistan. India has the distinction of being largest Guar producing country in the world and is the global leader in its production. Guar is grown in arid zones of Rajasthan, some parts of Gujarat, Haryana and Uttar Pradesh.



EXPORT POTENTIAL

India exports various forms of Guar products to a large number of countries. The country has exported 7,07,326.42 MT of Guar gum to the world for the worth of ₹16,523.87 crores during the year 2011-12. Despite of higher output in 2010-11 (11.2 lakh tones), prices rose sharply due to strong export demand for guar gum and carryover stocks from previous season. India leads the list of the major guar producing countries of the world contributing to around 75-80 percent in the world total production.

STATE SCENARIO

It is one of the important commercial crop of Rajasthan state and occupies a prominent place in the Guar seed production of India. Rajasthan is the major Guar producing state of country and contributing 70 percent of its production followed by Harayana (12%), Gujarat (11%), Punjab (3%) and other states (4%). Bikaner, Hanumangarh, Sriganganagar,

Barmer, Churu, Jaiselmer, Nagaur, Jodhpur, Sikar and Jhunjhunu are ten major Guar seed producing districts in the state. Jodhpur city is the most important processing centre of Guar Gum and contributes approximately 40 percent of the Guar Gum supply.

IMPORTANCE

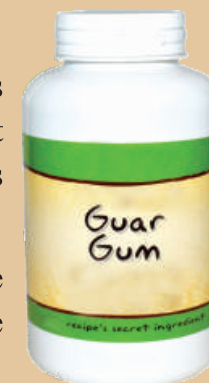
Apart from being consumed as feed for animals or vegetable for human consumption, it is used as thickener in cosmetics, sauces and salad dressings. The most important by-product of this crop i.e. guar gum is obtained through the processing of endosperm of the seeds of guar. This product is vastly consumed in the countries such as USA, Germany, China, Italy, South Africa and United Kingdom. Though these countries are not really indulged in the production of Guar.



USES OF GUAR

(A) Guar Plant

- **Forage :** Guar plants can be used as cattle feed.
- **Green Manure :** Guar plantings increase the yield of subsequent crops as this legume conserves soil nutrient content.
- **Domestic use :** Guar leaves can be used like spinach and the pods are prepared like salad or vegetables.



(B) Guar Gum :

- **Food :** In several food and beverages guar gum is used as additive in order to change its viscosity or as fiber source.
- **Industry :**
 - ◆ Guar gum acts as a surface-finishing agent in the textile industry. Where it adds a smooth, occasionally shiny surface to fabric.
 - ◆ Guar gum is an ingredient in paper pulp to give paper products a dense surface suitable for printing.
 - ◆ It is also used in the explosive industry where it acts as a hydrating agent and emulsifier.
- **Feeds :** Guar meal korma and Guar meal churi are widely used as prime raw material for producing various kinds of cattle feeds, Aqua feeds, Fish feeds, Poultry feeds, dairy feeds and swine feeds etc.



CONTACT FOR MORE DETAILS:

Department of Agriculture- 0141-2227088-89

Website- www.krishi.rajasthan.gov.in or

www.horticulture.rajasthan.gov.in

Kisan Call Centre-1800 180 1551



Vasundhara Raje
Chief Minister, Rajasthan



Prabhulal Saini
Agriculture Minister, Rajasthan

Potential for Establishing Guar Based Industries in Rajasthan



Department of Agriculture, Rajasthan, Jaipur