



## **A DISCUSSION ON DEMOGRAPHICAL-ECOLOGICAL STUDY OF VIDARBHA FOR AGRO AND FOOD PROCESSING SECTOR**

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### **ABSTRACT**

*Maharashtra is a leading State in agriculture divided in to 6 revenue divisions with 36 district places with 109 sub divisions and 357 Taluka places. Vidarbha have two divisions Amravati (Varhad) with 6 administrative divisions and Nagpur with 6 Administrative divisions. Vidarbha's financial system is primarily based on the agro and food processing with the addition of forest and mineral (lime stone, coal, stone etc.) wealth. The major area Principal crops grown in vidarbha are rice, jowar, bajra, wheat, tur, mung, urad, gram and other pulses. The Maharashtra State is a major producer of oilseeds where as Vidarbha produces sunflower and soya bean as major oil seed crops. The main cash crops of the Vidarbha region are cotton, oranges and soya beans. Nagpur and around area is the leading orange-growing district. Traditional crops are sorghum (jowar), pearl millet (bajra) and rice. Yavatmal is the largest cotton-growing district. Gondiya is the largest rice-growing district in Vidarbha division. A range of incentives were granted to attract industries but few industries have opened there. As per MOFPI (Ministry of Food Processing India) report major players active in Vidarbha are B.Y.Agro, Global foods, Haldiram Food products, Formica Cold Storage (Nagpur), I.G. International (Amaravati) and Swapna-Purti (Chandrapur). As per Principal Secretary of Textiles, Maharashtra government, Sunil Porwal, said the Vidarbha region contributes around one-fourth of India's total cotton output worth around Rs. 13 billion. This raw produce is then sent to different parts of the India for processing it into fabric its value reaches to Rs.1300 billion. This paper concentrates on the agricultural production, Marketing strategies and motivate to agro and food processing industries in Vidarbha area.*

**Key words:** - Demographical-Ecological Study, cotton-growing, orange-growing district

**DILIPKUMAR T. RATHI**

**DR. RAHUL KHARABE**

1Page



## INTRODUCTION

As per Food and agricultural ecosystem of India has 20 agro climate conditions and 50+ soil types, India is largest producer of milk and 2<sup>nd</sup> in fruits and vegetables. During year 2011-2015 India Export processed food in large manner CAGR reached to 20.3% and in US\$ 21.1 bn. And As per FPI (food processing Industry) till 2020 targeted reach will be US \$ 482 bn. The food processing industries registered in Maharashtra as 322 in mass production where as small and medium are 16512 covering target of US \$ 160 mn.

This discussion focuses on the opportunities for farmers in Vidarbha area having lot of the issues such as irregular rainfall, water resources and storage bodies. This discussion introduces leads the reader from a general research issue or problem of Vidarbha concentrates on specific area of food production and related industries.

It puts some questions in direction of farmer their situation their loan system and help from the agro in context by explaining the significance. This discussion summarizes current understanding supported studies and research put on Vidarbha and their situation. As per demography of Vidarbha maximum area is covered by the farmers and agricultural sector. Revenue generation majorly depending on the agricultural production. Water management and storage resources are the heart part of this study. Growing various crops and supporting agro based industries have required water storage in large manner due to this sugar cane not produced in and around Vidarbha area consumes water in large manner in West Maharashtra also.

Statement of the purpose of research to handle issues or problem in front of the farmer in and around the Vidarbha, study is based on agricultural supporting industries which help to farmers. The statement followed by topic is concentrated on the agro products and food processing

Throughout world food processing and agro industries are based on various production items produced by the farmers. Agricultural sector in India is facing lot of the problems due to the capital and water resources also government is facing lot of the problems related with agricultural issue. Lot of the researchers writing on the farmer and their issues but till now perfect solution not derived, due to this tried to study research gap in this sector and discussed on it.

### Significance of study:

- Eastern part of Maharashtra comprising two division Nagpur and Amravati it

**DILIPKUMAR T. RATHI**

**DR. RAHUL KHARABE**

2P a g e

occupies 31.6% area of Maharashtra with 21.3% percent population. Nagpur, Amravati, and Akola are the major cities in that area where as Vidarbha area is famous for Orange production and cotton production with 72% mineral resources. Raw material generated from these resources are exported to another country or states for production of finished products but industrialist have little interest in Vidarbha due to this cotton ib

- Living condition of farmer in this sector are poor than rest of Maharashtra. Now a day’s powerful political leadership got to the Vidarbha due to this big industrial movement is attracted towards the Vidarbha. Mumbai and Poona are the rich cities in Maharashtra as compare with Vidarbha cities. As per census 2011 Vidarbha out of total population 76.7% Hindu are living followed by 13% Buddhist and 8% Muslims and remaining are 2%. Educational sector in this area can expand the knowledge as well as develops entrepreneurship in young generation. This paper focuses on changes required in educational sector related to agricultural sector subsidy for small and big business opportunities in front of Vidarbha peoples.

**Objectives of study**

- To study on demography of Vidarbha.
- To study on agricultural products produced in out of Vidarbha.
- To take review of economical condition of farmers since previous five years.
- To study on previous economical condition of food and agro industries from previous five years.

**Scope of study:**

- Vidarbha area with two divisions.
- Agricultural production and farmer situation in vidarbha
- Government support to farmers and food processing and agro industries.
- Study based on secondary information & various reports from steadfast agencies

**Discussion:**

**Table No:1 TOP 5 Fastest Growing cities in the World(y-y 2019-2035)**

Rank	Growth(y-y (2019-2035))	City	GDP 2018*	GDP 2035*
1	9.2	Surat	28.5	126.8

2	8.5	Agra	3.9	15.6
3	8.6	Bangalore	70.8	283.3
4	8.2	Hyderabad	50.6	201.4
5	8.4	Nagpur	12.3	48.6

\*GDP: \$ tn, Constant 2018 prices

Source: Oxford Economics

### Interpretation:

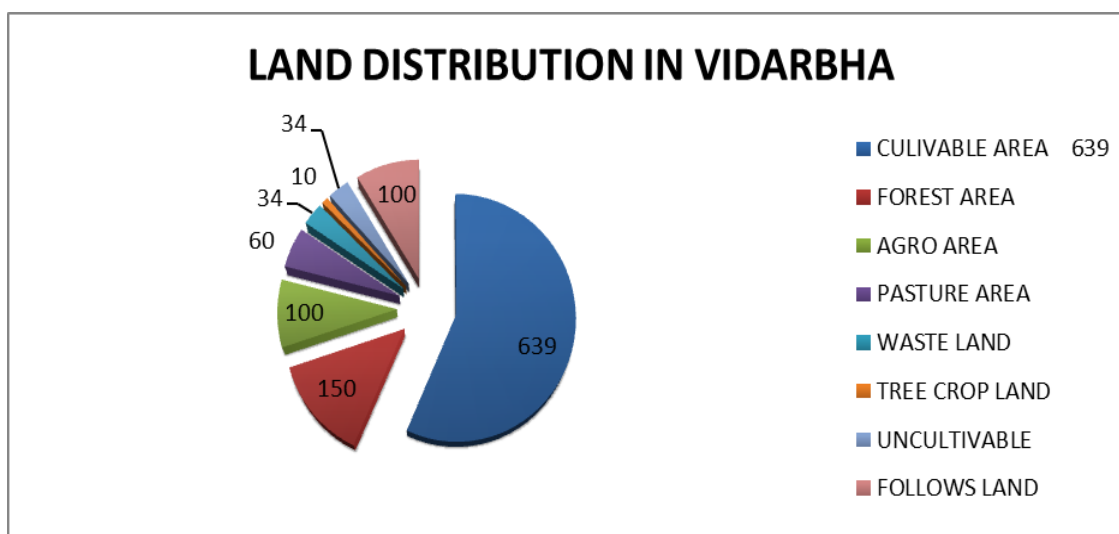
Above table shows information about cities whose GDP increases swiftly in TOP 10 cities only Nagpur is the Maharashtra city having better opportunities for fast growing. In Maharashtra Mumbai (metropolitan city) and Pune (second level metropolitan city) are growing vastly manner but as per Oxford economics these cities not make room in above table.

### Observations:

- 1) This table contains total 10 cities from the world here only five cities are taken into the consideration
- 2) As per 2018 GDP observation prices Surat is the top most city in the world major upshot of that city is the cloth production where as Vidarbha (Nagpur) is ahead in cotton production and pulses production but it's on the fifth having big opportunities.

### Agro sector of Vidarbha:

Maharashtra is the India's richest state with contributing 20% of industrial sector output 16% of GDP.



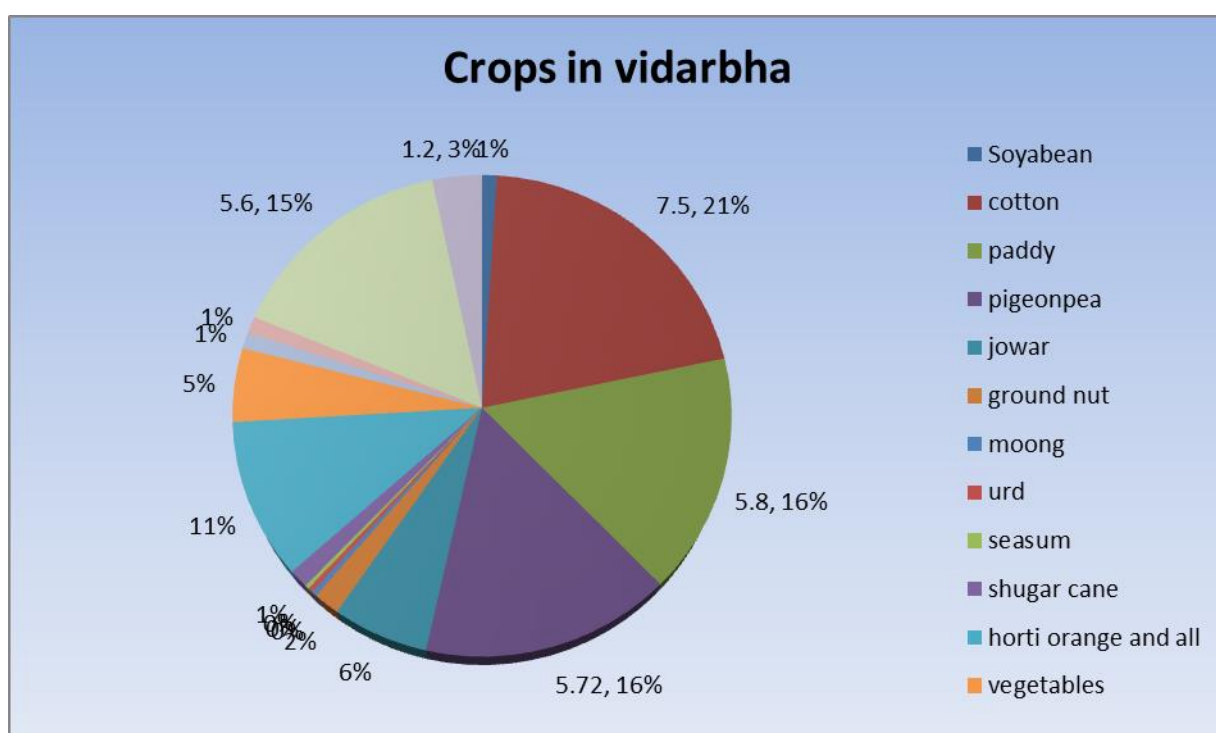
COURTESY SOCIO ECO REVIEW GOVT. OF MAHARASHTRA 2009

**Interpretations:**

As per Geographical Area of Vidarbha Cultivable area is 63% which much more greater than all type of area back to back Forest area 16 % -40% which is much more in Gadchiroli–Chandrapur district Land under non agricultural use Permanent pastures is near about 10%-15% varied with different districts Cultivable land is much more 17%-35% waste land under miscellaneous tree crops & groves Barren & uncultivable land is also 15%-20%.

Much more land available in Vidarbha for the cultivation but major problem is the rain fed irregular is the major drawback of farming sector not a success. As per world economic survey Nagpur second level metropolitan city have big opportunity to improve their outcome. *SAMRUDHHI MAHAMARG* (Express way) is also big opportunity in front of the farmers to improve their economical conditions. Farmers have required water, transportation, Capital, fertilizers, technical material, manpower, machine power, to improve their agricultural production.

**Crops in Vidarbha:**



Courtesy: Government Maharashtra report for Vidarbha

**Interpretation:**

**DILIPKUMAR T. RATHI**

**DR. RAHUL KHARABE**

5P a g e

- Vidarbha deals with majorly soybean and the cotton Gondia, Bhandara districts are ahead in paddy due to this Rice mills and pulses mills are operated in Nagpur.
- As per demographical study deep black soils is 43.4% where as Medium deep black soils 13.8 % and Shallow black soils 42.7% in Vidarbha area so lot of agricultural crops are growing with rain fed. Three districts have long rainy season with 60-70 days but remaining districts have minimum rainy season with 50-54 days.
- Orange, lime, banana are the major horticultural products from farming sector but when at the time of season its price going down due to large production.
- Cold Storage and food processing business required in large manner in Vidarbha area.
- As like Kankan Vidarbha has required developing some new ideas related to the crops such as in paddy Indrayani, very famous in whole Maharashtra.
- Improve some ideas in Horticultural sector such as in west Maharashtra Pomegranates came in new kind.

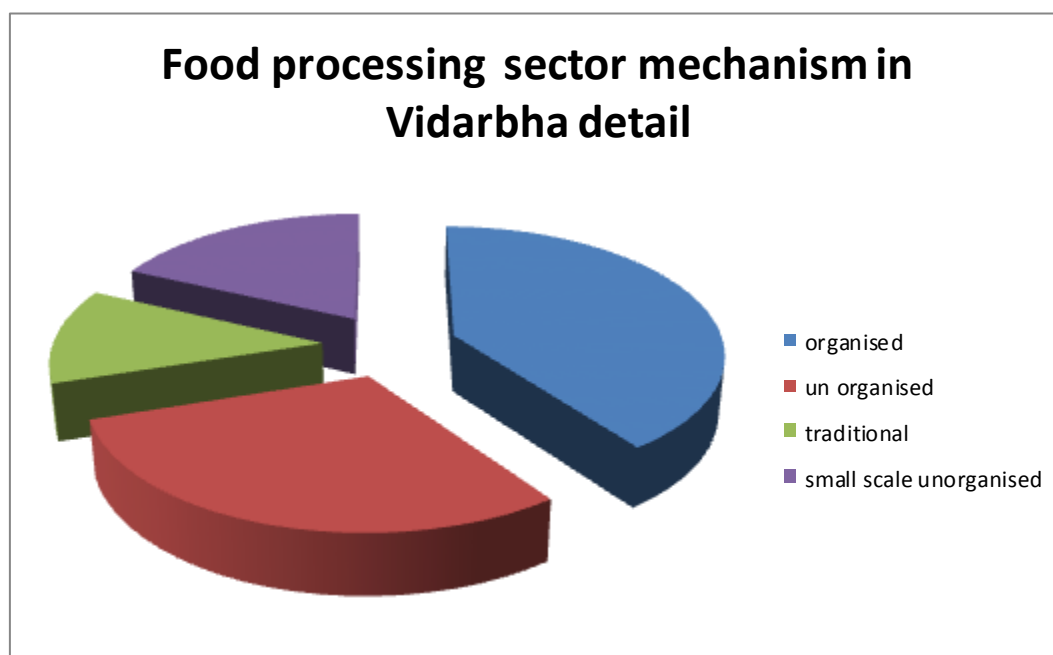
#### **Food processing players in Vidarbha:**

Under MOFPI (ministry of food processing) Government of India promote to the different agencies to develop food processing small and big industries in India. In premises of Nagpur area and Varhad (Amravati area) lot of the food processing and agricultural developing industries are working for finished product.

#### **Contrivance:**

- India was ninth largest exporter of agricultural products in the world since 2017.
- Aim of government of India is double the outcome of agricultural and food sector till 2022.
- As per IBEF report demand for agricultural inputs and allied services such as cold storage, warehousing are increases in large manner.
- Vidarbha is not lag behind than the India lot of food processing Players are operating there.

**Courtesy : Government of Maharashtra Vidarbha**



#### Interpretation:

- Pulses mills, oil mills, spices mills and rice (paddy) factories working in Vidarbha since long far ago but all food processing industries working in and around Vidarbha modern machinery. Lot of industries are working in production of finished products from fruit and juice.
- As per demography of Vidarbha area all type of agricultural production is available but sugar cane rarely available but due to good soil Cotton takes second place but finished product factories available in Gujarat.
- Players such as Spurti, Patanjali, Haldiram, BY agro, Global, Formica are working in proper manner where as small scale industries and some traditional industries have required to work in organized manner.

#### CONCLUSIONS:

- As per demography of Vidarbha is the region with div 1&2(Nagpur and Varhad) having 57.2% area with black cotton soil and average 51 rainy days in monsoon seasons.
- As per cultivation soybean is ahead with back to back is the cotton, paddy, pigeon pea in Vidarbha with Total Irrigation Rain fed.
- The eastern Vidarbha districts of Gondia, Bhandara, Gadchiroli, and Chandrapur have high rainfall (upwards of 1500 mm annually), coming from the Bay of Bengal arm of the monsoon.

**DILIPKUMAR T. RATHI**

**DR. RAHUL KHARABE**

7P a g e

- Required big water storage bodies in that area if water not reached with canal system Government has to develop Lift irrigation from Eastern area to the West area.
- This region is bounded in the north by Satpura hills but the rest of the region is relatively flat. Barring alluvial tracts riparian to Chulband and Vainganga, the soils in the rest of the region are largely lateritic.
- Subsoil formations have primary porosity but little permeability. Thousands of tanks dot the landscape, particularly in Bhandara and Gadchiroli districts. Paddy is the main crop here.
- This region is also rich in forests and has a much higher tribal population. Western Vidarbha covering Buldhana, Washim, and Akola and Amravati districts is much dryer with low rain fall.
- Soya finished product factories, Soya oil factories, required to concentrate on orange and lime storage and production.
- Concentration on Cotton farming and finished product required.
- When farmer produced pulses at that time price is very low when it reaches to the market for consumers at that time its price reaches five times.
- In place of Canal water irrigation system Government have to concentrate on the closed water irrigation system.
- In place of large subsidy Government must concentrate on primary issues in Vidarbha related to the water resources.
- As like Pradhanmantri Gram sadak scheme Government must work on drinking water scheme and rural sector must be free from three threats Food, Water and house now cloths are produced in large manner in India.

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