

World History : Some lesser known facts

(B) Education :

- 🇮🇳 First university in Takshila in 700BC.
- 🇮🇳 University of Nalanda: 10,500 students from the world, more than 60 subjects.

7

World History : Some lesser known facts

(C) Mathematics :

- 🇮🇳 **Number System :** India invented the Zero (Aryabhata).
- 🇮🇳 **Decimal System :** Place value system (100 BC).
- 🇮🇳 **Counting :** Greeks and Roman could count up to 106. India 10^{53} to the power of 53). Specific names 5000 BCE during the Vedic period. Today, the largest is Tera 10^{12} (10 to the power of 12).
- 🇮🇳 Algebra, Trigonometry and Calculus.
- 🇮🇳 Value of "pi" : Led to Pythagorean Theorem (6th century).
- 🇮🇳 Quadratic Equations : 11th century.

8

World History : Some lesser known facts

(D) Wealth :

- 🇮🇳 Richest country till 17th Century (pre-invasion).

9

World History : Some lesser known facts

(E) Science & Technology :

- 🇮🇳 **Medicine + Surgery :**
- 🇮🇳 Ayurveda : 2500 years ago (Charaka consolidated).
- 🇮🇳 Surgeries : 2600 years ago (cesareans, cataract, artificial limbs, fractures, urinary stones, plastic surgery and brain surgery).
- 🇮🇳 Anesthesia
- 🇮🇳 Surgical Equipment : Over 125 were used.

10

World History : Some lesser known facts

(E) Science & Technology :

- 🇮🇳 **Advanced Biosciences :** Deep knowledge of anatomy, physiology, etiology, embryology, digestion, metabolism, genetics and immunity.
- 🇮🇳 **Astronomy (5th century) :** Time taken by earth to orbit the sun = 365.258756484 days.

11

World History : Some lesser known facts

(E) Science & Technology :

- 🇮🇳 **Art of Navigation :** Sindhu river (6000 years ago).
- 🇮🇳 **Mining :** Diamonds (only source, until 1896).
- 🇮🇳 **Wireless Communication :** Prof. Jagdeesh Bose (USA based IEEE Survey) .

12

World History : Some lesser known facts

(F) Infrastructure :

- India The earliest reservoir + dam for irrigation.
- India Lake called 'Sudarshana' (300 BC).



13

World History : Some lesser known facts

Games & Sports :

- India Chess (Shataranjan or Ashta Pada) was invented in India.



14

World History : Some lesser known facts

(E) Farming :

- India 15,000 Years
- India Vedic Era -- Rigveda
- India Fukoka
- India Biodynamic farming



15

New India : Some lesser known facts



Gandhi - Agriculture can be sustainable and self-reliant only if farmers use locally available resources as inputs e.g. farm waste, cow-dung and other biomass for preserving the soil as a living material

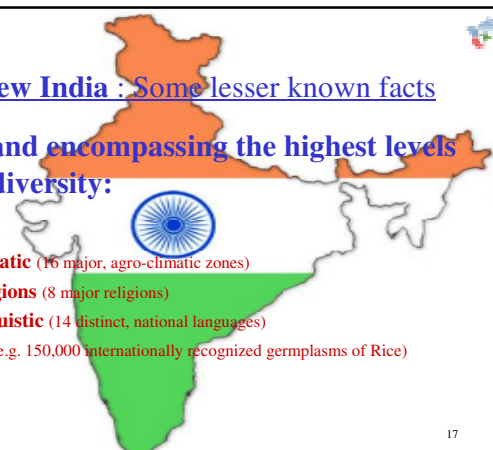


16

New India : Some lesser known facts

A land encompassing the highest levels of diversity:

- India Climatic (16 major, agro-climatic zones)
- India Religions (8 major religions)
- India Linguistic (14 distinct, national languages)
- India Bio (e.g. 150,000 internationally recognized germplasm of Rice)



17

New India : Some lesser known facts

Technical/Managerial Workforce :

- India NASA 36%
- India MICROSOFT 34%
- India IBM 28%
- India INTEL 17%
- India XEROX 13%
- India SCIENTISTS (USA) 12%

Forbes magazine (July 1987): Sanskrit is the most suitable language for computer software



18

New India : Some lesser known facts

ECONOMY : AGRARIAN →→→INDUSTRIAL
 Contribution to GDP reduced. 62% → 26% (Service Sector Growth)

19

New India : Some lesser known facts

World ranking on Agri Commodity Production

Commodity	Production Rank
TEA	1
MILK	1
RICE	1
SUGAR	2
WHEAT	2
VEGETABLES	2
FRUITS	3
COFFEE	6

20

New India : Some lesser known facts

Holds the potential of raising / gathering the largest number of plant species in the world

- 4,500,000 different plant species
- 150,000 medicinal plants
- 140 crops traded on commodity exchange

21

ORGANIC MARCH

(A) Major contribution :
 Swiss Organizations :

(B) Other EU Countries :
 The Netherlands : AMIE Project

Germany :

Sweden :

UK :

(C) Export Production Base :

(D) Domestic Market : Nascent stage

22

Government Regulatory Initiatives

- Launched NPOP (April 2000)
- National standards
- Accreditation policy
- Quality Mark "India Organic"

23

ORGANIC ACCREDITATION AGENCIES

- APEDA
- Tea Board
- Coffee Board
- Spices Board
- Cashew and Cocoa Directorate
- Coconut Board
- Horticulture Board

24

ORGANIC CERTIFICATION : INTERNATIONAL AGENCIES

- EcoCert
- Skal
- SGS
- IMO
- Naturland
- BCS OKO-Grantie GmbH
- Demeter

25

Organic Inspection Capacity

- EU 2092/91
- NOP
- JAS
- British Soil Association
- Biodynamic

26

Domestic Certification Agencies Ready for EU + NOP Equivalency

- INDOCERT
- Indocert
- IRFT

27

PRODUCTS FOR INTERNATIONAL CONSUMERS

- Food : * Rice (Basmati, Aromatic, Low-Gluten, High Gluten, Diabetic Rice)
- * Legumes (Soya, Lentils)
- * Oilseeds (Sesame, Flax, Peanut)
- * Sugar (Jaggery)
- Beverages : * Coffee (6th Largest, Both Types : Arabicas + Robustas)
- * Tea (Darjeeling)
- Industrial Oilseeds : Castor
- Spices & Condiments : Cumin, Coriander, Pepper, Ginger
- Natural Fibers : Cotton, Jute
- Fruits : Mango, Banana, Pineapple
- Dry Fruits : Cashew Nut, Walnut
- Essential Oils: Marigold, Sandalwood, Rose, Pama Rosa
- Herbs, Medicinal Plants :
- Honey

28

Potential vs Current Levels

COFFEE

Potential = 35,000 ha

Production = 2,250 ha (6.5%)

Gap = 32,750 ha

29

Corporate Initiatives

- Small :
- Medium :
- Large :

30

International Development Initiatives : Marketing + Research

- International Competence Centre for Organic Agriculture (ICCOA)
- FiBL, Switzerland
- GTZ
- Asian Research Network for Organic Agriculture (ARNOA)
- International Resources for Fairer Trade (IRFT)
- CBI, The Netherlands
- Fair Trade eV, Germany
- SIDA

31

International Companies Promoting Organic Production

Logos of various international companies are displayed on the map, including Organic Tempeh, Organic India, Himalaya, Aveda, Tesco, Costa, and Do-It.

32

Organic Products In The International Markets

- Basmati Rice
- Banana (Dried)
- Cotton
- Mango Pulp
- Sesame
- Cashew Nut
- Ginger
- Pineapple Juice
- Banana Puree
- Walnuts
- Honey
- Tea
- Spices
- Coffee
- Other (Peanut candy, Tamarind, Mustard)

33

Thank You

34