



Higher & Technical Education in Maharashtra

Mr. J.S. Saharia, IAS

Principal Secretary, Higher and Technical Education
Govt. of Maharashtra, INDIA

India's Perspective



- India believes that Human capital must be developed & harnessed fully not only for the development of country but also for the mankind as such
- Our strengths:
 - Highly developed system of higher, technical & vocational education-English medium
 - Vibrant democracy with young population(70 % below 35 years)

A photograph of a classroom with several children sitting at desks, some looking towards the camera and others looking down at their work. The background is a blurred classroom setting.

Achievements: Elementary Education India

Sr. No.	Parameter	1950	Present
1	Literacy rate %	18	65
2	Female literacy rate %	9	54
3	No. of schools	0.03 m	1.28 m
4	GER	32%	95%
5	Gender parity	0.38	0.92

Achievements: Higher Education India

Sr. No.	Parameter	1950	Present
1	General Colleges	370	20769
2	Professional/ Technical Colleges	208	7797
3	Universities	27	350
4	GER	3%	9%

- 13 IIT + 1 IISc
- 7 IIM
- 23 Central Universities
- 20 NIT
- 4 IIIT

Scenario Higher Education: Maharashtra

Sr. No.	Parameter	No. Of institute	Intake
1	General & Professional Colleges	3052	1,05,6222
2	Universities (Gen 12, Agri 4, AHF 1, Medical 1, Technical 1, Deemed 12)	31	
3	Technician Education (Diploma)	900	134473
4	Vocational Education	624	97144
Total		4607	1,287,839

- Pune: Indian Oxford, the major technical education and IT hub
- University of Mumbai & Pune over 100 years of establishment
- World renowned institutes like IIT, TIFR, TISS, VJTI, UICT, CoEP etc.

Details: Technical Education in M.S.

Sr. No	Type of Courses	Institutes	Intake
1	Post Graduate Degree Courses in Engineering and Technology (M.E./ M. Tech)	65	4951
2	Post Graduate Degree Course in MBA/MMS	299	21585
3	Post Graduate Degree Course in MCA	114	6988
4	Degree in Engg. and Technology	271	86896
5	Degree in Pharmacy	141	8345
6	Degree in HMCT	9	470
7	Degree in Architecture	41	1987
Total		940	131222



Details: Technician Education in M.S.

Sr. No	Type of Courses	Institutes	Intake
1	Diploma Courses in Engineering and Technology	302	104000
2	Diploma in Pharmacy	186	1,170
3	Diploma in HMCT	16	988
4	Short term courses	396	28,315
Total		900	134473

Details: Vocational Education in M.S.

Craftsmen Training Scheme (ITI)

Category	No. of Institutes		Intake capacity	
	Govt.	Non-Govt.	Govt.	Non-Govt.
General ITI	287	223	56160	26200
Tribal ITI	88	--	11604	--
Women ITI	15	7	2776	404
Sub Total	390	230	70540	26604
Total	624		97144	



Gap Analysis

	State	Desirable
GER		
Higher & Technical	13%	55%
Vocational Education	1.50%	50%
Skewed Ratio		
Engg: Polytechnics	1:1	Desirable 1:3
Drop - outs	80% Up to 10 th std.	



Gap Analysis

- Dearth of excellent institutes
 - Though some world renowned institutes- UICT, IIT, TIFR, TISS, etc.
- Dearth of High end research labs
- Dearth of Industry linkage
- Few foreign students
- Low faculty exchange & Student exchange
- Few attempts for International tie ups

A photograph of a classroom with students at desks, overlaid with a red gradient bar. The word "Challenges" is written in large yellow font across the red bar.

Challenges

- Access : Increase GER, Tribal & Underdeveloped areas
- Inclusion
 - Backward castes, minorities, women
- Excellence
 - Adequacy of physical facilities & infrastructure, Teachers with requisite quality, Teaching learning process, Attainment level of students
- Relevance
 - Skilled workforce
- Management
 - Decentralization, Accountability, Professionalism
- Resources
 - 6% of GDP in 1968, 5% in 2008



Vision

- Skilled manpower to be raised from 3.1 m to 500 m by 2022 – Prime Minister of India
- Maharashtra is to be developed as knowledge society
- To develop inquisitive minds of young population who will do innovation & lead the world



Major Initiatives of GoI for XIth Plan

- ❖ Increased outlay by nearly 10 times from Xth plan
- ❖ Establish 14 World Class Universities
- ❖ 20 New IITs in PPP mode
- ❖ 8 New IITs, 7 New IIMs
- ❖ Proposal to allow foreign universities under consideration
- ❖ Abolition of 10th exam



Initiatives by Govt. of Maharashtra

- **University education** (Role of Facilitator & Regulator only)
 - Emphasis on Institutes seeking autonomy
 - Linkages with Industry through Board of Governors (Chairman from Industry)
 - Key performance indicators (KPI) to achieve excellence
 - Revised system for selection of Vice Chancellors
 - Emphasis on Distance education through use of IT
- **Technical & Vocational Education**
 - Upgradation of Polytechnics and ITI with the help of Industry,
 - Involvement of Industry in the management of ITI through IMC



India-Opportunities on Technological Front

➤ Emerging growth segments.....

- Product Data Management,
- Content Management,
- Enterprise Application Integration,
- Data Warehousing,
- Planning and Disaster Recovery,
- e-Supply Chain Management (eSCM), e-Learning, ePharma,
- Wireless Applications,
- Straight Through Processing (STP) Knowledge Management,
- Business Intelligence,
- Sales Force Automation (SFA),
- Bioinformatics and Nanotechnology.
- Automobile design & manufacturing



India-Opportunities on Technological Front

➤ **Emerging Service sector needs**

- Aviation,
- Retail and commercial real estate,
- ITeS, telecom
- Insurance, and financial services
- Hotel Management & Catering
- Travel, eco & medical tourism



Opportunities in Maharashtra

- Establish/upgrade new institutes/campuses
- Programmes for Faculty up gradation
- Industry tie ups
- Design & development of curriculum
- Research & Development
- Faculty/ Student training & exchange program



Minister HRD,GoI Mr. Kapil Sibal :

FDI must come in to India. Entry in to education sector must neither be limited nor over regulated; system to be made accessible from outside too.



**Opportunities that's built by
Joining hands with the
Understanding of tomorrow....**

***So let us work together...
for
Excellence in education !!***



For detail information please visit following websites

- www.maharashtra.gov.in
- www.dte.org.in
- www.msbtte.com
- www.dvet.gov.in
- www.dirhe.org.in



Thank you !!