



XXVI International Mineral Processing Congress - IMPC 2012

Hotel The Ashok, New Delhi, India
September 24-28, 2012

www.impc2012.org



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Supported by Government Agencies in India

- Ministry of
 - Steel
 - Mines
 - Coal
 - Science and Technology
 - Environment and Forests
 - Human Resource Development
- Department of
 - Atomic Energy
 - Earth Sciences
 - Biotechnology
- Council of Scientific and Industrial Research



IIM
Metallurgy
Materials Engineering
The Indian Institute
of Metals



सत्यमेव जयते
Ministry of Steel
Government of India



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Ministry of Mines
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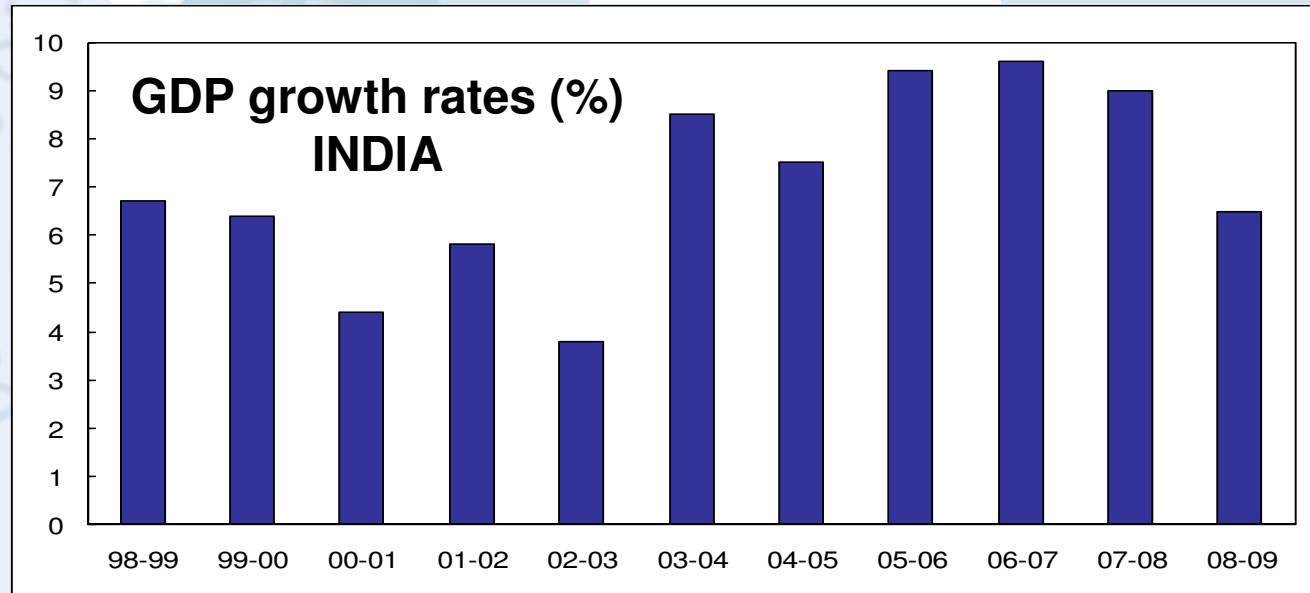


सत्यमेव जयते
Department of Science and Technology
Government of India



Council of Scientific
and Industrial Research

GDP Growth in India



Indian Economy is now more than US\$ 1.3 Trillion and growing at a relatively healthy rate of 8.5 % (average of last 5 years)



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Indian Mineral Industry

- **India produces 89 minerals**
 - **Value close to USD 30 Billion**
- **% share by value of total minerals and metals industry**
 - **Steel (73.7), Coal (20.6), Aluminum (4.1), Base Metals (1.5)**
- **India ranks: Mica (1st), chromite (2nd), barytes (2nd), coal (3rd), iron ore (4th), bauxite (5th), steel (5th), manganese ore (7th) and aluminum (8th)**



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Mineral Production in India

Mineral/Ore	Production in Million Tons
Coal	549
Iron Ore	226
Limestone	220
Bauxite	13.5
Chromite	3.2
Clays	2.8
Mn Ore	2.0



Projected Growth of Indian Steel Industry (2020)

Corporation	Present Capacity (MT)	Green Field Capacity (MT) to be added	Total Capacity by 2020 (MT)
SAIL & RINL	15.75	24.9	40.65
Tata Steel	5.0	26.5	31.5
JSPL	3.0	21.5	24.5
JSW	4.1	26.9	31
ESSAR	4.6	19.0	23.6
ISPAT	3.0	1.4	4.4
Arcelor Mittal	-----	24	24
POSCO	-----	12.0	12
Others	28.49	NA	28.49
Grand Total	58.94	156.2	220+

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Iron Ore Industry in India

- More than 125 Billion dollars worth of investment announced in the steel sector
- India currently exports nearly 100 million tons of iron ore per year (current production is 220 million tons per year)
- NMDC, SAIL, Tata Steel, Sesa Goa, Fomento, Salgaocars, Chowgule, MSPL, Kudremukh, Dempo





Nonferrous and Industrial Minerals

- NALCO
- Vedanta (HZL, BALCO)
- Aditya Birla Group (Hindalco)
- Hindustan Copper (HCL)
- Uranium Corporation (UCIL)
- Hutti Gold Mines (HGML)
- Coal India
- Aryan Group
- Neyveli Lignite Corporation
- Manganese Ore India (MOIL)
- Gujarat Mineral (GMDC)
- Rajasthan State Minerals (RSMML)
- Indian Rare Earths (IRE)
- Kerala Minerals (KMML)
- Cochin Minerals and Rutile (CMRL)
- Trimex Sands
- English India China Clay (EICL)
- Ashapura Minechem
- Wolkem Wollastonite
- Golcha
- Orissa Mining Corporation (OMC)
- Tamilnadu Minerals (TAMIN)





Consulting Companies and Equipment/Reagent Suppliers

- MN Dastur
- Tega Industries
- ThyssenKrupp Industries
- Humboldt Wedag India
- McNally Bharat India
- Metso Minerals
- MECON
- Engineers India
- FL Smidth Minerals
- Sandvik Asia
- Outotec
- Gujarat Ambuja
- ACC
- Grasim
- L&T
- Cytec
- NALCO chemicals
- Insmart Systems
- CDE Asia
- Allmineral Asia
- Roche Mining MT India



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Theme of the Congress

Innovative Processing for Sustainable Growth



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Five Days Program

- Plenary and keynote lectures
- Oral presentations
- Poster sessions
- Theme symposia
- Technical Exhibition
- Happy hours, Welcome Function, Congress Banquet, Farewell Dinner
- Accompanying persons program on all five days
- Technical visits to academic/research institutions, mines & concentrators
- Technical workshops - specific topics of interest preceding IMPC 2012
- Visit to Taj Mahal, Agra (a day long trip from Delhi – return the same day)
- Pre and post congress tours



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Technical Program of IMPC 2012

Basic Scientific Developments

- Process mineralogy, characterization and liberation
- Comminution
- Gravity separation
- Magnetic and electrostatic separation
- Flotation
- Processing of fines and slimes
- Pelletization, agglomeration and sintering
- Solid-liquid separation
- Bio-beneficiation
- Hydrometallurgy, extraction of metals, bio-hydrometallurgy
- Process modeling and simulation
- Process instrumentation and advanced model-predictive control





Technical Program of IMPC 2012

Technological Advancements related to Specific Industrial Segments

- Minerals for **iron and steel** industry
- Minerals for **aluminum** industry (Bauxite Ores)
- Complex **copper-lead-zinc-nickel-cobalt** ores
- **Platinum group** minerals
- Industrial Minerals
 - **Phosphate (Fertilizers), Limestone (Cement), Wollastonite, Chromite, Clays**
- **Beach Sand Minerals**
- **Energy minerals:** Coal and Lignite, Uranium, Silica





Technical Program of IMPC 2012

Special Theme Symposia

- Role of **information technology (IT)** in mineral processing industry
- Eco-friendly technologies for **waste recycling** including electronic scrap
- Science and technology of reagent design, development and commercialization including **green chemistry**
- **Sustainability** issues like energy efficiency, resource conservation, recycling and utilization strategies, innovative management of land and water, tailings management and acid mine drainage
- Development of **human resources** for the mineral industry – Current status of the quality and quantity of professionals and needs of the future; new skill sets; change in course curricula and training; modern text books; refresher courses



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IMPC 2012 - Call for Papers

- Abstract submission online on our website www.impc2012.org or through email contact@impc2012.org
- Please send us the abstracts of your paper for presentation in IMPC 2012 before **July 15, 2011**



www.impc2012.org



IMPC 2012 Technical Exhibition

- **Venue: Pragati Maidan, New Delhi**
- **Monday, September 24 to Thursday, September 27, 2012**
- **Participation from mineral rich countries, industrial giants and SMEs**
 - 20+ countries
 - 150+ exhibitors
 - 1000+ congress delegates
 - 10,000+ visitors to the IMPC 2012 Expo
- **Expo Organizer – TAFCON, New Delhi**



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IMPC 2012 Secretariat

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Reaching New Delhi, India



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Important Destinations in India



1. Hindustan Copper Ltd.
2. Hindustan Zinc Ltd.
3. Essar Steel Ltd.
4. Indian Rare Earths
5. Jindal Steel, Hutti Gold Mines
6. NMDC
7. NALCO
8. Manganese Ore India Ltd.
9. SAIL
10. ISPAT
11. TATA Steel
12. HINDALCO
13. Coal India Ltd.

Lakshadweep Islands

Andaman Islands

Nicobar Islands

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Thank you for your kind attention



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