

Jharkhand

MARCH
2013

THE MINING BASE OF INDIA



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Jharkhand

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THE MINING BASE OF INDIA

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- ❖ Jharkhand – An Introduction
- ❖ Infrastructure Status
- ❖ Business Opportunities
- ❖ Doing Business in Jharkhand
- ❖ State Acts & Policies



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Jharkhand Factfile



Source: Maps of India

- Jharkhand is located in the Eastern part of India. The state shares its border with West Bengal in the East, Uttar Pradesh and Chhattisgarh in the West, Bihar in the North and Odisha in the South.
- Commonly spoken languages of the state are Hindi and Santhali. Urdu and Bengali are also prevalent. English is the primary medium of education.
- Forests and woodlands occupy more than 29 per cent of the state.

- Jamshedpur, Dhanbad, Bokaro, Deoghar and Hazaribagh are some of the major cities and industrial areas in the state.
- Jharkhand has around 40.0 per cent of the country's mineral resources such as coal, iron ore, copper, uranium, mica, bauxite, granite, limestone, silver, graphite, magnetite and dolomite.

Parameters	Jharkhand
Capital	Ranchi
Geographical area (sq km)	79,714
Administrative districts (No)	24
Population density (persons per sq km)*	414
Total population (million)*	32.9
Male population (million)*	16.9
Female population (million)*	16.0
Sex ratio (females per 1,000 males)*	947
Literacy rate (%)*	67.6

Sources: Government of Jharkhand Website, www.jharkhand.gov.in,
*Provisional Data – Census 2011

Jharkhand in Figures ... (1/2)

Parameter	Jharkhand	All-States	Source
Economy			
GSDP as a percentage of all states' GSDP	15	100	CMIE, 2010-11, current prices
Average GSDP growth rate (%)^	10.1	15.9	CMIE, 2004-05 to 2010-11, current prices
Per capita GSDP (US\$)	748.2	1,324.3	CMIE, 2010-11, current prices
Physical Infrastructure			
Installed power capacity (MW)	2,269.8	211,766.2	Central Electricity Authority, as of January 2013
Wireless subscribers (No)	61,020,297*	864,720,186	Telecom Regulatory Authority of India, as of December 2012
Broadband subscribers (No)	93,307	13,350,938	Ministry of Communications & Information Technology, as of December 2011
National Highway length (km)	2,170	76,818	Ministry of Road Transport & Highways, as of June 2012
Airports (No)	1	133	Airport Authority of India

^Calculated in Indian Rupee Terms

*Including Bihar

Jharkhand in Figures ... (2/2)

Parameter	Jharkhand	All-States	Source
Social Indicators			
Literacy rate (%)	67.6	74.0	Provisional Data – Census 2011
Birth rate (per 1,000 population)	25.0	21.8	SRS Bulletin (www.censusindia.gov.in), 2012
Investments			
Outstanding investments (US\$ billion)	615.1	11,318.3	CMIE (2011-12)
Industrial Infrastructure			
PPP projects (No)	11	881	www.pppindiadatabase.com
SEZs (No)	1	386	Notified as of January 2013, www.sezindia.nic.in

PPP: Public Private Partnership, SEZ: Special Economic Zone, SRS: Sample Registration System

Advantage Jharkhand

Endowed With Extensive Mineral Reserves

Jharkhand has around 40.0 per cent of the country's mineral wealth. The state is one of the largest producers of coal, mica and copper in India. Because of its large mineral reserves, mining and mineral extraction is the major industry in the state.

Policy And Fiscal Incentives

Jharkhand offers a wide range of fiscal and policy incentives to the industries, under the Industrial Policy, 2012. The state also has policies for IT and SEZ offering sector-specific incentives.

High Economic Growth

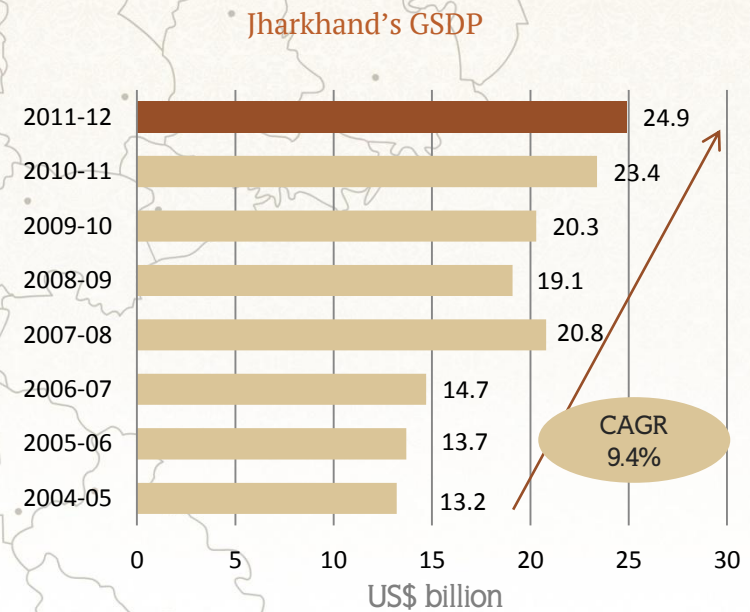
The average GSDP growth rate was about 9.4 per cent between 2004-05 and 2011-12. The state provides investment opportunities in sectors such as mining and metal, power, infrastructure, manufacturing and food processing.

Location Advantage

The state's industries enjoy a unique location-specific advantage as it is close to the vast market of Eastern India; it is closer to the ports of Kolkata, Haldia and Paradip and has easy access to raw materials.

Economic Snapshot – GSDP

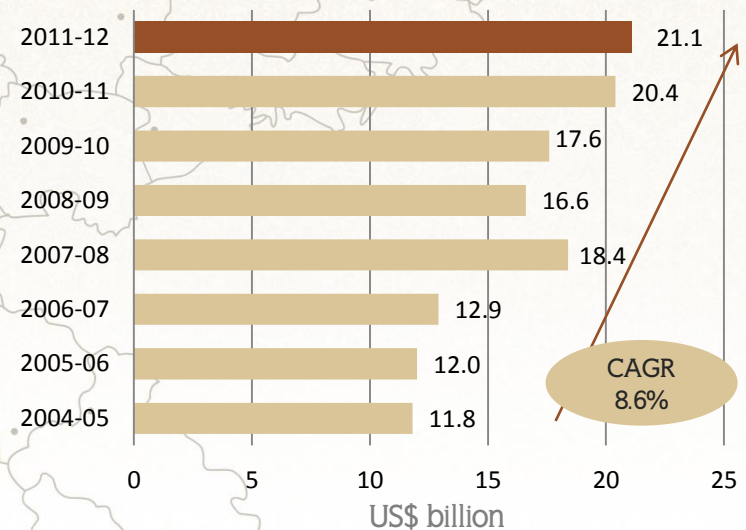
- At current prices, the Gross State Domestic Product (GSDP) of Jharkhand in 2011-12 was US\$ 24.9 billion.
- Between 2004-05 and 2011-12, the average annual GSDP growth was about 9.4 per cent.



Source: CMIE

Economic Snapshot – NSDP

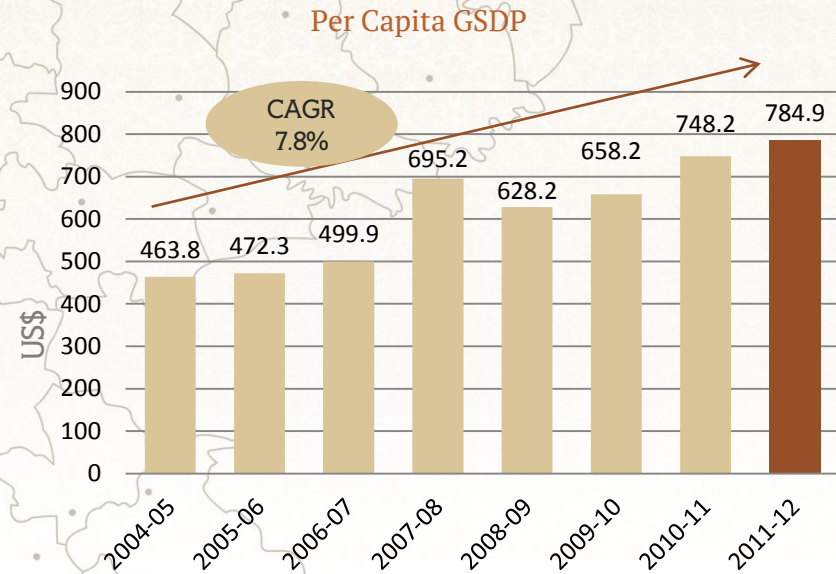
- The Net State Domestic Product (NSDP) of Jharkhand was US\$ 21.1 billion in 2011-12.
- The average NSDP growth rate between 2004-05 and 2011-12 was about 8.6 per cent.



Source: CMIE

Economic Snapshot – Per Capita GSDP

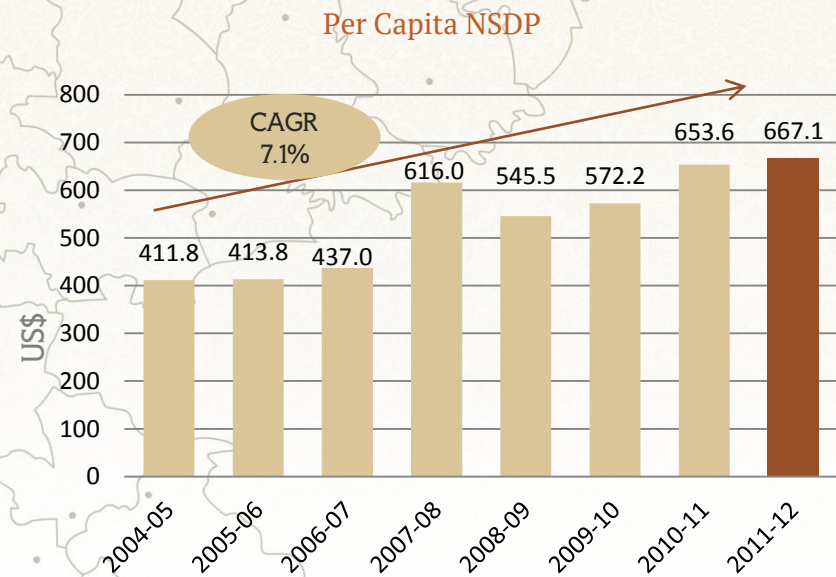
- The state's per capita GSDP in 2011-12 was US\$ 784.9 as compared to US\$ 463.8 in 2004-05.
- Per capita GSDP has increased at a Compound Annual Growth Rate (CAGR) of 7.8 per cent between 2004-05 and 2011-12.



Source: CMIE

Economic Snapshot – Per Capita NSDP

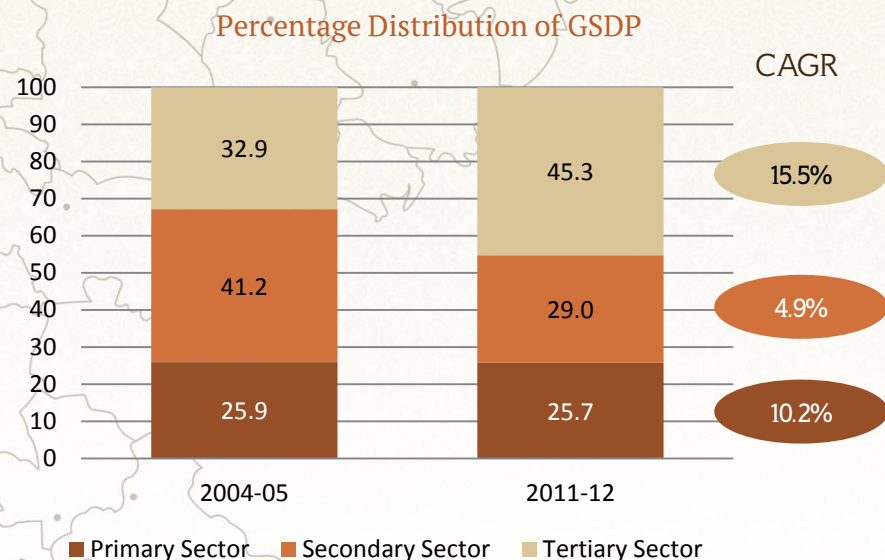
- The state's per capita NSDP in 2011-12 was US\$ 667.1 as compared to US\$ 411.8 in 2004-05.
- The per capita NSDP has increased at a CAGR of 7.1 per cent between 2004-05 and 2011-12.



Source: CMIE

Economic Snapshot – Percentage Distribution of GSDP

- In 2011-12, the tertiary sector contributed 45.3 per cent to the state's GSDP at current prices. It was followed by the secondary sector at 29.0 per cent and primary sector at 25.7 per cent.
- At a CAGR of 15.5 per cent, the tertiary sector has been the fastest growing among the three sectors from 2004-05 to 2011-12. The growth has been driven by trade, hotels, real estate, finance, insurance, transport, communications and other services.
- The primary sector grew at a CAGR of 10.2 per cent and the secondary sector grew at a CAGR of 4.9 per cent between 2004-05 and 2011-12.



Source: CMIE

Economic Snapshot – Agricultural Production

- Rice is the major food grain crop of the state. In 2011-12, the total rice production of the state was 3.41 million tonnes.
- In 2011-12, the total food grain production of the state was around 4.66 million tonnes.
- The state's soil and climatic conditions also support cultivation of ornamental plants, mushrooms, spices and tea.
- In 2010-11, the total fruits production of the state was 779,600 tonnes.

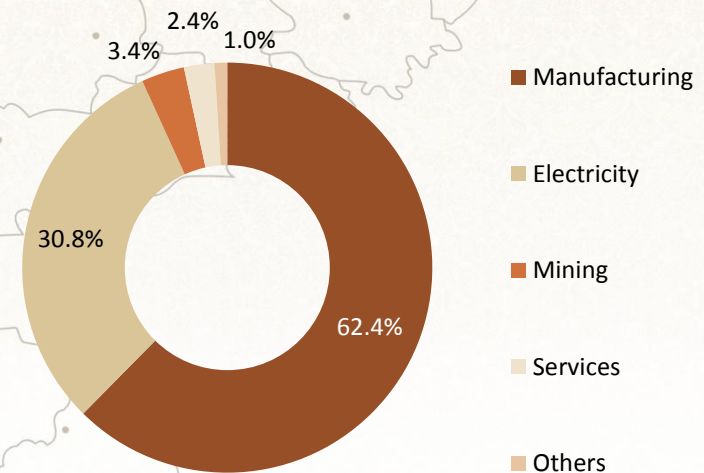
Crop	Annual Production in 2011-12 ('000 tonnes)
Rice	3,418.1
Potato	655.5*
Sugarcane	457.3
Mango	427.9*
Wheat	335.3
Onion	305.0*
Total Pulses	492.3
Total Oilseeds	174.5

Sources: Reserve Bank of India, Indian Horticulture Database – 2011, National Horticulture Board
*In 2010-11

Economic Snapshot – Investments

- In 2011-12, the total outstanding investments in Jharkhand were US\$ 615.1 billion.
- Of the total outstanding investments, the manufacturing sector accounted for around 62.4 per cent followed by electricity sector at 30.8 per cent.

Break up of Outstanding Investments by Sector (2011-12)



Others include real estate and irrigation

Source: CMIE

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Physical Infrastructure – Roads

→ The state's industrial activity is primarily concentrated in an area South of NH-2, which connects Kolkata with Delhi via Jharkhand.

→ In July 2010, the State Government entered into an agreement with Asian Development Bank (ADB) for a loan of US\$ 200 million to fund a two-lane road project stretching 311 km between Govindpur near Dhanbad and Sahebganj.



Source: Maps of India

Road Type	Road Length (km)
National Highways	2,170
State Highways*	6,880
Rural Roads [^]	24,300

Sources: Ministry of Road Transport & Highways, Annual Plan 2012-13, Government of Jharkhand Website: www.jharkhand.gov.in

*Including Major District Roads & Urban Roads,

[^]Including Classified Rural Roads & Minor District Roads

→ Jharkhand has 15 National Highways (NH) running through the state; NH-2, NH-6, NH-23, NH-31, NH-32, NH-33, NH-75, NH-78, NH-80, NH-98, NH-99, NH-100, NH-114A, NH-333 and NH-343 measuring 2,170 km. The total length of State Highways* is around 6,880 km.

Physical Infrastructure – Railways



Source: Maps of India

- The total railway-route length in Jharkhand is around 1,984 km.
- The state has extensive goods-handling facilities available at Ranchi, Bokaro, Dhanbad and Jamshedpur stations as well as ore loading facilities at Kiriburu, Lohardaga & all Central Coalfields Ltd (CCL) coal mines.
- The dedicated freight corridor (Eastern corridor-extension to Kolkata; under the Dedicated Freight Corridor Corporation of India) will pass through the state and is expected to benefit the industry significantly. The Eastern freight corridor is expected to complete by 2016.

Physical Infrastructure – Airports



Domestic Airport



Air Strip (Charter Flight Service)

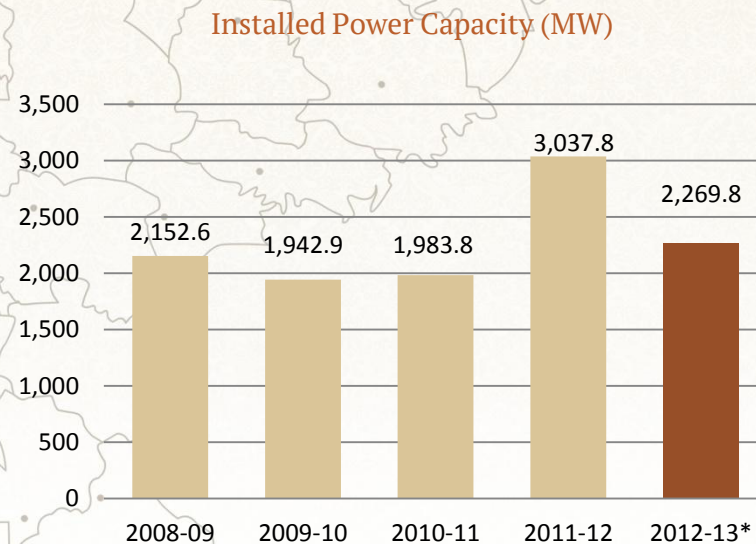
Source: Maps of India

- A domestic airport is located in the state capital, Ranchi. Direct links are available from Ranchi to prominent cities such as Delhi, Patna, Kolkata and Mumbai.
- Jamshedpur, Dumka, Dhanbad, Bokaro, Giridih, Deoghar, Hazaribagh, Daltonganj and Noamundi also have airstrips.
- Chartered flights are available between the steel city of Jamshedpur and Kolkata.
- Department of Civil Aviation of the State Government plans to acquire land to develop 12 airstrips in Chatra, Simdega, Lohardaga, Godda, Pakur, Latehar, Sahebganj, Jamtara, Saraikela, Garhwa, Koderma and Khunti district.
- Ranchi Airport had received 221,334 passengers during 2012-13 (April to September).

Physical Infrastructure – Power

- As of January 2013, Jharkhand had a total power generation installed capacity of 2,269.86 MW, which comprised 1,324.05 MW under state utilities, 646.00 MW under the private sector and 299.81 MW under central utilities.
- Backed by large coal reserves in the state, about 90.2 per cent of the total power generation installed capacity in the state is coal-based thermal power (2,048.88 MW).
- Besides, the state had total 200.93 MW of installed hydropower generation capacity and 20.05 MW from renewable sources.
- In 2009, the Central Government handed over the construction of the 3,960 MW, Ultra-Mega Power Project (UMPP) at Tilaiya to the Anil Dhirubhai Ambani Group after completing the competitive bidding process. The project is now in construction phase and is expected to start generating power from the year 2015.

→ As of September 2012, the state's average per capita power consumption was 552 kWh.



Source: Central Electricity Authority
*As of January 2013

Physical Infrastructure – Telecom

- According to the estimates by Telecom Regulatory Authority of India (TRAI), Jharkhand had 61.0 million* wireless connections and 560,061* wire-line subscribers, as of December 2012.
- As of December 2011, the state had 488 telephone exchanges.
- About 98.1 per cent of the villages of the state had direct access to telecom facilities, as of December 2011.
- As of December 2011, the state had 93,307 broadband subscribers.
- The state had 3,092 post offices, as of January 2013.

Telecom Infrastructure (December 2012)	
Wireless Connections	61,020,297*
Wire-line Connections	560,061*
Broadband Subscribers	93,307^
Telephone Exchanges	488^
Post Offices	3,092**

Sources: Telecom Regulatory Authority of India, Department of Telecommunications, Annual Report 2011-12, Ministry of Communication and Information Technology, Government of India, India Post

*Including Bihar
^As of December 2011
**As of January 2013

Some of the Major Telecom Companies in Jharkhand

Bharat Sanchar Nigam Limited (BSNL)
Vodafone Essar
Reliance Communications
Idea Cellular
Tata Teleservices
Bharti Airtel
Aircel Limited

Source: Telecom Regulatory Authority of India

Development Projects: Urban Infrastructure

- Under the Jawaharlal Nehru National Urban Renewal Mission (JNNURM), five projects costing US\$173.2 million have been sanctioned for the urban centres such as Ranchi, Dhanbad and Jamshedpur. The key areas of development are solid-waste management system and water supply.
- Department of Urban Development of the State Government has schemes for development of urban transport, water supply, sewerage, solid-waste management and other civic amenities. For 2012-13, the proposed outlay for urban development is US\$ 208.17 million.

City	Water Supply	Solid-Waste Management System
Ranchi	<ul style="list-style-type: none"> • As per City Development Plant (CDP) of Ranchi, the demand for water is expected to increase to 440 Million Litres per Day (MLD) by 2021. • Around US\$ 64 million of investment has been envisaged up to 2013. 	<ul style="list-style-type: none"> • Solid -waste generation is expected to increase to 602 Tonnes Per Day (TPD) in 2026. • Around US\$ 24 million of investment has been envisaged up to 2013.
Dhanbad	<ul style="list-style-type: none"> • As per CDP of Dhanbad, the demand for water is expected to increase to 408 MLD by 2026. • Around US\$ 83 million of investment has been envisaged up to 2013. 	<ul style="list-style-type: none"> • Solid-waste generation is expected to increase to 776 TPD in 2026. • Around US\$ 12 million of investment has been envisaged up to 2013.

Source: JNNURM, Ministry of Urban Development

Development Projects: Key Public Private Partnership Projects

Project Name	Sector	PPP Type	Project Cost (US\$ million)	Stage
Adityapur Water Supply Project, Phase-I	Urban Development	Management Contract	32.6	EOI
Birsa Bus Stand-Cum-Commercial Complex	Urban Development	BOOT	16.5	Construction
City Centre, Adityapur	Urban Development	BOT - Annuity	32.6	EOI
Jaipal Singh Stadium, Sports And Commercial Complex	Urban Development	BOT - Annuity	-	EOI
National Games Housing Complex, Ranchi	Urban Development	Lease	54.3	Construction
Second Adityapur Toll-Bridge on the river, Kharkali	Roads	BOT-Toll	11.9	Construction
Barhi – Hazaribagh	Roads	BOT-Toll	84.0	Construction
Hazaribagh – Ranchi	Roads	BOT - Annuity	131.9	Construction

Source: pppindiadatabase.com

BOT: Build-Operate-Transfer, BOOT: Build-Own-Operate-Transfer, EOI: Expression Of Interest

Social Infrastructure – Education

- Jharkhand has a literacy rate of 67.6 per cent according to the provisional data of Census 2011; the male literacy rate is 78.5 per cent and the female literacy rate is 56.2 per cent.
- Started in March 2009, the Central University of Jharkhand has started offering courses in Mass Communication, Business Administration, Mathematics, English, etc.
- Birla Institute of Technology (Ranchi), National Institute of Technology (Jamshedpur) and Indian School of Mines (Dhanbad) are among the well-known engineering colleges of the country. The Xavier Labour Relations Institute in Jamshedpur is one of the premier business schools in India.
- The state has five reputed institutes in research. These are involved in research in the fields of iron and steel, mining and metallurgy.

Education Infrastructure in Jharkhand	
Universities	11
Constituent Colleges	66
Medical Colleges	6
Engineering Colleges	18
Polytechnics	20
Industrial Training Institutes	158
Government Primary Schools	25,379
Government Upper Primary Schools	13,418
Total Secondary Schools	2,425

Source: Annual Plan 2012-13, Government of Jharkhand Website, www.jharkhand.gov.in, University Grants Commission

Literacy Rates (%)	
Literacy Rate	67.6
Male Literacy	78.5
Female Literacy	56.2

Source: Census 2011 (provisional data)

Social Infrastructure – Health

- Jharkhand has 330 Primary Health Centres (PHCs), 3,958 Sub-Centres, 21 District-level Hospitals, 15 Sub-division Hospitals, 32 Referral Hospitals, 188 Community Health Centres (CHCs) and six Medical Colleges.
- The broad objectives of the state's Department of Health include enhancing maternal and child-healthcare, stabilising population growth and improving nutritional status.
- The state stresses upon empowerment of women and inclusion of non-profit organisations in order to achieve its objectives.
- The Jharkhand Government has drafted a policy for establishment of super-speciality hospitals, medical and nursing colleges, and paramedical institutes.
- The State Government has built a 500-bed hospital at Ranchi. Two other upcoming hospitals in the state are at Dumka and Seraikella-Kharsawan districts.

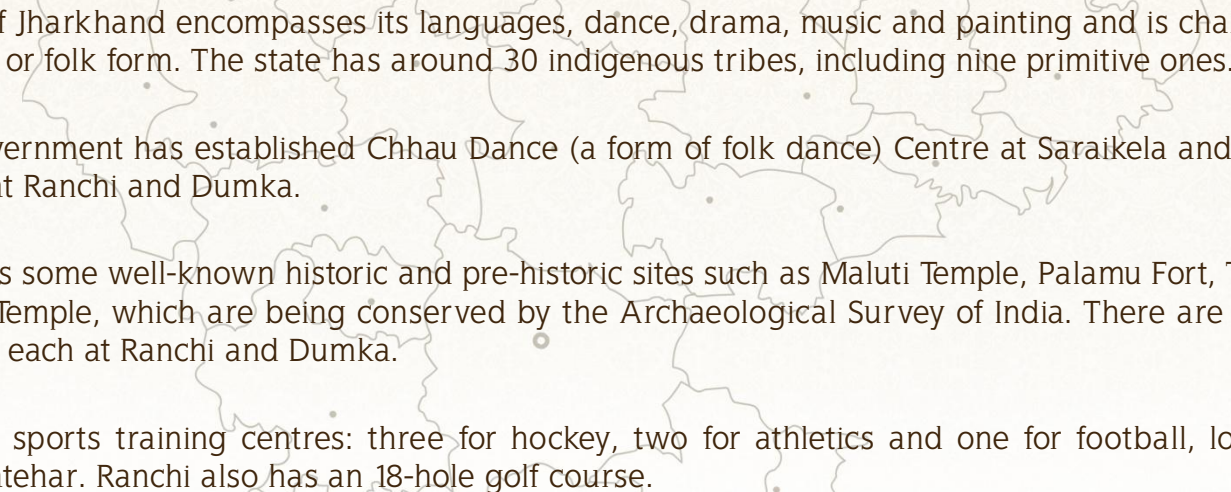
Health Indicators of Jharkhand (2011)	
Birth Rate*	25.0
Death Rate*	6.9
Infant Mortality Rate**	39

Source: Sample Registration System (SRS) Bulletin 2012
(www.censusindia.gov.in)
*Per thousand persons
**Per thousand live births

Health Indicators of Jharkhand	
District Hospitals	21
Referral Hospitals	32
Sub-Divisional Hospitals	15
Primary Health Centres	330
Community Health Centres	188
Sub Centres	3,958

Source: Annual Plan 2012-13, Government of Jharkhand Website,
www.jharkhand.gov.in

Cultural Infrastructure

- 
- The culture of Jharkhand encompasses its languages, dance, drama, music and painting and is characterised by the distinct tribal or folk form. The state has around 30 indigenous tribes, including nine primitive ones.
 - The State Government has established Chhau Dance (a form of folk dance) Centre at Saraikela and Bharatiya Nritya Kala Mandir at Ranchi and Dumka.
 - Jharkhand has some well-known historic and pre-historic sites such as Maluti Temple, Palamu Fort, Tanginath Temple and Haradih Temple, which are being conserved by the Archaeological Survey of India. There are two museums in the state, one each at Ranchi and Dumka.
 - There are six sports training centres: three for hockey, two for athletics and one for football, located at Ranchi, Gumla and Latehar. Ranchi also has an 18-hole golf course.

Industrial Infrastructure ... (1/2)

- Jamshedpur is the original industrial town in the state where the Tata Group set up their first steel plant, more than 100 years ago. It is a privately run township and now has several types of industrial units including automotive, metals, chemicals, electrical and electronic goods.
- Several other industrial areas have been developed in the state based on the location of mineral reserves and related down-stream industries.
- An SEZ has been notified at Adityapur (adjoining Jamshedpur) for the automotive industry. A private sector consortium has been selected for developing the SEZ.
- Appreciating the requirement of advanced tool-room for manufacturing industries, an Indo-Danish tool room and training centre has been set up in Jamshedpur.
- The State Government plans to set up and promote three-tier growth centres at the mega, mini and micro levels.

Industrial Areas	
Palamu-Garhwa Industrial Area	
Lohardaga Industrial Area	
Koderma-Hazaribagh Industrial Area	
Ranchi Industrial Area	
Dhanbad-Bokaro Industrial Area	
Singbhum Industrial Area	
Ghatshila Industrial Area	
Deoghar-Jasidih Industrial Area	

Growth Areas	
Mega-Growth Areas	Barhi, Hazaribagh
Mini-Growth Areas	Food Park (Ranchi) Apparel Park (Chaibasa)
Micro-Growth Centres	At the block-level to boost village-based industries

Industrial Infrastructure ... (2/2)

- The State Government has identified 56 clusters including refractory cluster, Dhanbad; mini cement cluster, Ramgarh; bell metal cluster at Bishnugarh, Hazaribagh and Khunti, steel processing cluster at Giridih, hard coke cluster at Dhanbad and forging and hand tool manufacturing cluster at Bhendra, Bokaro.
- Jharkhand has three industrial area development authorities with headquarters at Adityapur, Bokaro and Ranchi. Another such development authority is being formed at Santhal Pargana.
- These authorities are responsible for acquisition of land and development of infrastructure facilities such as road, drainage, park, water supply and public utilities, within their jurisdiction.

Parameters	Adityapur Industrial Area Development Authority (AIADA)	Ranchi Industrial Area Development Authority (RIADA)
Controlled Area (Acre)	33,970	1,524
Allotted Plots (No)	1,365	682
Units Established (No)	893	540
Major Industries	Heavy and Light Engineering , Ferro-casting, Chemicals, Plastic and Rubber, Forging and Mineral-based Units.	Engineering (Machining Fabrication), Mines- and Mineral-based Units, Chemicals, Electrical and Electronics, Metallurgy (Foundry and Forge), Casting and Rolling, Plastics and Rubber.

Sources: www.aiada.in, www.riada.in

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Key Industries

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- The natural resources, policy incentives and location-specific advantages of Jharkhand support investments in sectors such as mining and metal extraction, engineering, iron and steel, and chemicals.
 - Since Jharkhand has around 40.0 per cent of the country's mineral wealth, its extensive mineral resources make mining, metals and related sectors, a naturally strong sector of the state.
 - Jharkhand industrial policy, 2012 has been formulated with the objective to convert Jharkhand into a favoured destination for investors and to promote sustainable Industrial growth of the state.

Key Industries in Jharkhand

- Mining and Mineral Extraction
- Engineering
- Iron and Steel
- Chemicals
- Handloom
- Food and Beverages
- Plastics and Rubber
- Printing and Packaging
- Tourism
- Automotive
- Cement

Major Minerals of Jharkhand

- Coal
- Iron Ore
- Copper
- Aluminium
- Graphite
- Mica
- Manganese
- Uranium

Key Industries – Mining and Metals Industry ... (1/2)

- Jharkhand is a mineral-rich state; about 40.0 per cent of India's mineral reserves are available in the state.
- Mining and quarrying sector contributed around 10.9 per cent to the state's GSDP in 2011-12. It supports downstream industries and thermal power generation.
- Jharkhand's mineral reserves include coal, iron ore, bauxite, copper, mica, graphite, manganese, rock phosphate, silver, uranium and limestone.
- The state accounted for about 9.0 per cent of total value of mineral production in the country during 2010-11.
- The Central Mine Planning and Design Institute, Central Institute of Mining & Fuel Research and Indian School of Mines are located in Dhanbad and National Metallurgical Laboratories is located in Jamshedpur.

Some of the Key Players

- Tata Steel Ltd
- Jindal Steel & Power Ltd
- Hindalco Industries Ltd (HIL)
- Steel Authority of India Ltd (SAIL)

Key Minerals	Districts
Coal	Dhanbad, Bokaro, Hazaribagh, Chatra
Iron Ore	West Singhbhum, Palamau
Bauxite	Lohardaga, Gumla, Palamau, Ranchi
Copper	East Singhbhum, Dumka
Mica	Dhanbad, Koderma, Giridih, Hazaribagh
Graphite	Garhwa, Palamau
Manganese	West Singhbhum, Palamau
Quartz(silica sand)	Singhbhum, Dumka, Hazaribag, Deogarh, Palamu, Sahibganj

Sources: Department of Mines & Geology, Government of Jharkhand, Jharkhand State Mineral Development Corporation

Key Industries – Mining and Metals Industry ... (2/2)

Tata Steel Ltd



- Established in 1907, Tata Steel is one of the world's largest steel manufacturer. In 2011-12, the company produced 6.97 million tonnes of saleable steel.
- The company is setting up a 12 Million Tonnes Per Annum (MTPA) greenfield integrated steel plant in the state at Seraikela. It has captive raw material resources and a state-of-the-art plant in Jamshedpur with a capacity of 6.8 MTPA. The capacity of Jamshedpur plant is under expansion and is expected to reach 9.7 MTPA by 2012-13.

Jindal Steel & Power Ltd (JSPL)



- JSPL is a leading player in steel, power, mining, oil and gas, cement and infrastructure. The company recorded revenues of US\$ 3.55 billion in 2011-12.
- The company is setting up a 12 MTPA integrated steel plant and a 2,820 MW captive power plant in the state, with a total investment of US\$ 12 billion. A 3 MTPA steel plant at Patratu near Ranchi is expected to be commissioned by 2016.

Hindalco Industries Ltd (HIL)



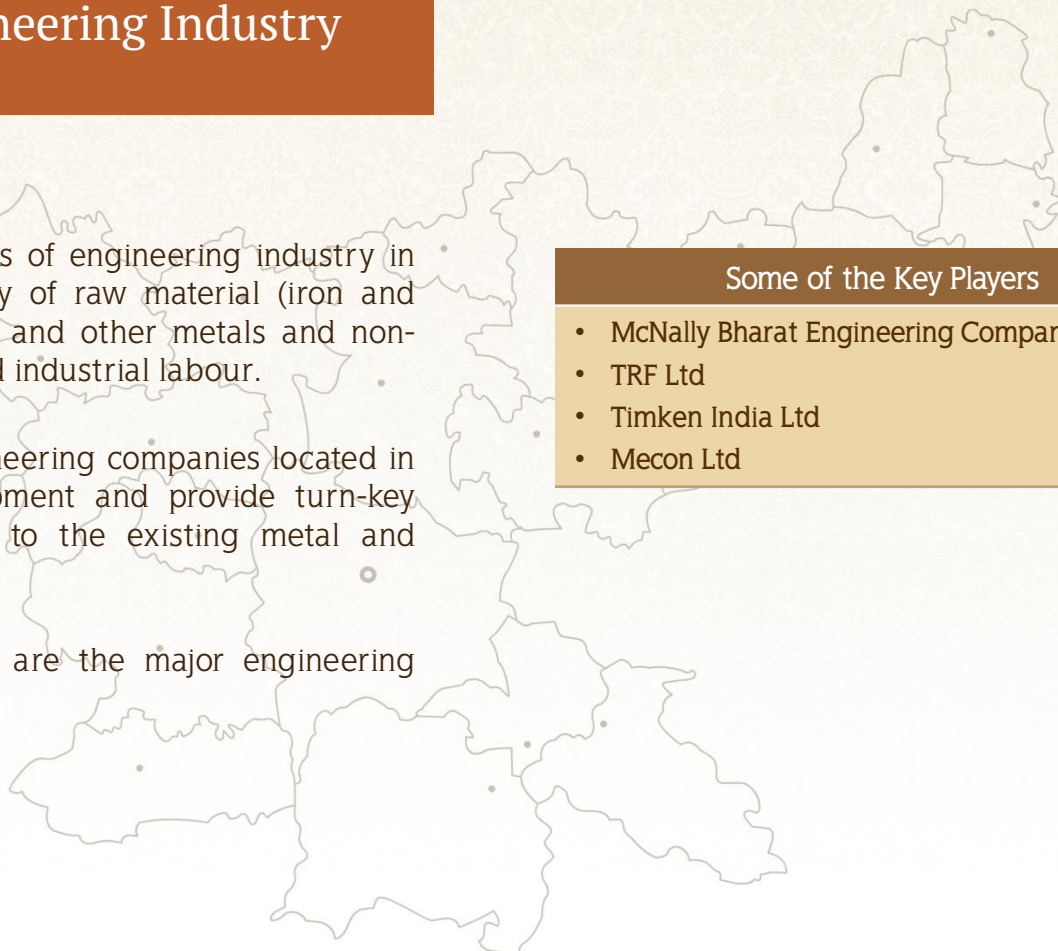
- HIL, a part of the Aditya Birla Group, is the world's largest aluminium rolling company and one of the biggest producers of primary aluminium in Asia.
- Hindalco's alumina refinery with 450,000 TPA capacity is located at Muri. It has the distinction of being the first alumina refinery in India. The company also has a 30 mega watt coal-based captive power plant.

Steel Authority of India Ltd (SAIL)



- SAIL is one of the leading steel-making companies in India. It is owned by the Government of India. The company operates a steel plant at Bokaro in Jharkhand.
- SAIL has a well-equipped Research and Development Centre for Iron and Steel (RDCIS) as well as an in-house centre for engineering and technology, a management training institute and a safety organisation at Ranchi.

Key Industries – Engineering Industry ... (1/2)

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- The major growth drivers of engineering industry in Jharkhand are availability of raw material (iron and steel, aluminium, copper and other metals and non-metals), power, water and industrial labour.
 - A number of heavy-engineering companies located in the state produce equipment and provide turn-key and consulting services to the existing metal and mining industry.
 - Bokaro and Jamshedpur are the major engineering clusters in the state.

Some of the Key Players

- McNally Bharat Engineering Company Ltd
- TRF Ltd
- Timken India Ltd
- Mecon Ltd

Key Industries – Engineering Industry

... (2/2)

McNally Bharat Engineering Co Ltd (MBE)



- MBE is one of the leading engineering companies in India. It is engaged in providing turnkey solutions in the areas of power, steel, aluminium, material handling, mineral beneficiation, pyroprocessing, pneumatic handling of powdered materials including fly ash handling and high concentrate disposal, coal washing, port cranes, civic and industrial water supply, etc.
- MBE has constructed over 300 plants on turnkey basis. One of its heavy fabrication units and the machine shop facility is based at Kumardhubi in Jharkhand.

TRF Ltd



- TRF Limited, formerly, Tata Robins Fraser Limited, was incorporated in 1962 and is part of the Tata Group. It provides solutions for material handling systems and equipment in infrastructure sectors such as steel, power, port and mining.
- In 2011-12, total revenues of TRF was around US\$ 276.8 million.
- The manufacturing facility of the company at Jamshedpur is spread over around 22 acres which includes six covered manufacturing bays covering around 21,250 sq m.

Timken India Ltd



- Timken India Limited is a subsidiary of The Timken Company, USA.
- The company's principal activity is production of tapered roller bearings at its Jamshedpur plant. Timken provides friction management solutions for a wide range of industry applications.

Mecon Ltd



- Mecon Limited is a public sector undertaking under the Ministry of Steel, Government of India, with interest in metals, power, oil and gas, and infrastructure sectors.
- Mecon is an engineering, consultancy and contracting organisation and offers a range of services required for setting up of projects from concept to commissioning, including turnkey execution.
- The company employs around 1,285 engineers, scientists and technologists. The company has head office in Ranchi.

Key Industries – Chemicals Industry ... (1/2)

- The chemical industries in Jharkhand produce wide range of chemicals such as caustic soda, dye and pigments and industrial and medical gas. The industry has developed to serve other manufacturing units in the region and the markets of Eastern India.

Key Players

- Aditya Birla Chemicals (India) Ltd
- Tata Pigments Ltd
- BOC India

Key Industries – Chemicals Industry ... (2/2)

Aditya Birla Chemicals (I) Ltd



- Aditya Birla Chemicals (India) Limited (formerly, known as Bihar Caustic and Chemicals Limited) is one of the leading chlor-alkali companies in India.
- The caustic soda plant of the company is located at Garhwa Road in the Palamau district of Jharkhand was commissioned in 1984. Installed capacity of the plant is 105,000 tonnes per annum.
- Its product range includes caustic soda lye, liquid chlorine, hydrochloric acid, sodium hypo-chlorite, compressed hydrogen gas, aluminium chloride and stable bleaching powder.
- The company also has a 30 mega watt captive power plant for uninterrupted power supply.

Tata Pigments Ltd



- Formed in 1927, Tata Pigments Limited is one of the largest producers of synthetic iron oxide pigments in India.
- The company has a manufacturing plant in Jamshedpur.

BOC India



- BOC India started operations in 1935 as Indian Oxygen and Acetylene Company and is now a subsidiary of the Linde Group.
- The company produces industrial gas, medical gas and specialty gas that it supplies across the country. The company also carries-out special projects.
- BOC India is constructing a 2,550 tonnes per day Air Separation Units (ASUs) for Tata Steel at Jamshedpur.

Key Industries – Cement Industry ... (1/2)

- With the reserves of cement grade lime stone, this region is well suited for creating additional capacities both in large and mini cement plants.
- Jharkhand has vast track of crystalline limestone, starting from Garhwa district to Bokaro district. Exploration of limestone in this area will help in developing cement plants in the state.
- The state has four large cement plants with an installed capacity of 8.48 million tonnes.
- In 2010-11, the state produced over 1.73 million tonnes of limestone.
- The major cement companies in Jharkhand are ACC Ltd, Jaypee Group and Lafarge India.

Key Players

- ACC Ltd
- Lafarge India
- Jaypee Group

Key Industries – Cement Industry ... (2/2)

ACC Ltd



- ACC Limited is one of the largest cement manufacturers in India with a country-wide network of factories and marketing offices.
- The company has two plants in Jharkhand – one at Chaibasa with a capacity of 870,000 Tonnes Per Annum (TPA) and another at Sindri with a capacity of 910,000 TPA.

Lafarge India



- Lafarge India is a subsidiary of the French building materials major. The company entered the Indian cement market in 1999 with the acquisition of cement business of Tata Steel.
- Lafarge has four cement plants in India, of which one is located at Jharkhand.
- The plant serves the cement market in Eastern and Central India.

Jaypee Group



- Jaypee Group is the third largest cement producer in the country and produces special blend of Portland Pozzolana cement under the brand name 'Jaypee Cement'. Its cement division currently operates modern, computerised process control cement plants with an aggregate installed capacity of 28 MTPA.
- Jaypee Group incorporated a joint venture company (Bokaro Jaypee Cement Limited) with SAIL to set up a 2.1 million tonnes per annum cement plant at Bokaro. The plant was commissioned in 2011.

Key Industries – Automotive Industry

... (1/2)

- The automotive industry in Jharkhand includes original equipment manufacturers as well as auto component production units.
- The auto components produced range from simple items such as nuts and bolts to complex ones such as shafts, radiators, and axles.
- The state has an auto cluster in Adityapur and one auto cluster is coming up near Jamshedpur.
- More than 600 auto ancillary industries including auto components units have been set up subsequently at Jamshedpur and Adityapur to cater to the needs of automobiles companies.
- An Automobile Vendor Park will be established under Public Private Partnership (PPP) or Private Mode by Mega Automobile Manufacturing Units in the state.

Key Players

- Tata Motors Ltd
- Apex Auto Ltd
- JMT Auto Ltd

Key Industries – Automotive Industry

... (2/2)

Tata Motors Ltd



- Tata Motors Limited is one of India's largest automobile companies and has a global presence. In 2011-12, total revenues of the company was US\$ 32.5 billion.
- It is one of the leaders in the commercial vehicles and the passenger vehicles markets in India.
- The company's manufacturing base is spread across India; it has a plant at Jamshedpur in Jharkhand.
- In 2008, the company acquired two prestigious international brands (Jaguar and Range Rover) from Ford Motors and, in 2009, launched the cheapest passenger car in the world, the 'Nano'.

Apex Auto Ltd



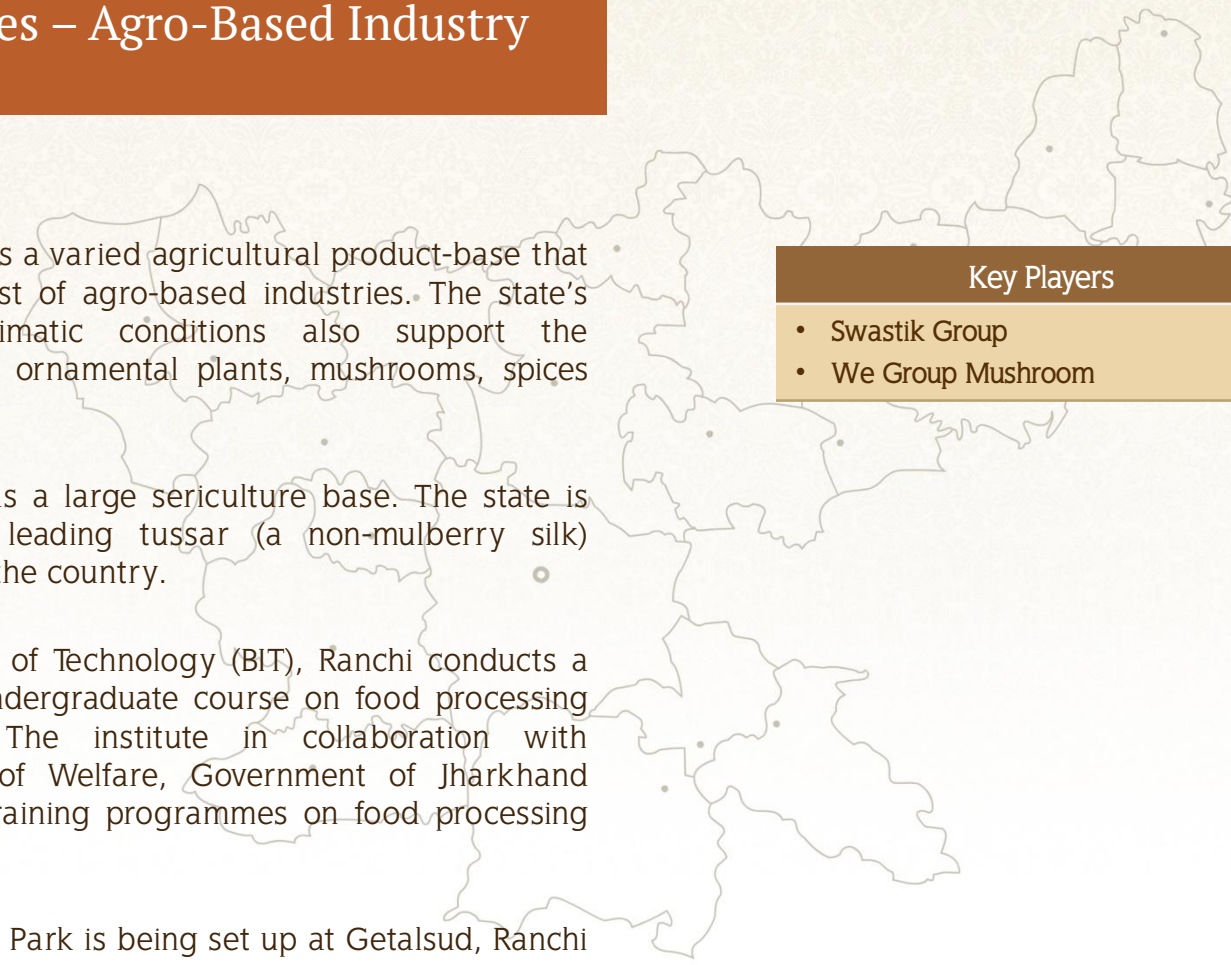
- Apex Auto was incorporated in 1994 and manufactures excavator components.
- Its manufacturing plant is located at Adityapur near Jamshedpur.

JMT Auto Ltd



- The company manufactures automobile ancillaries, ancillary gear boxes, axle components, gearboxes and excavator components. Its plant is located at Adityapur in Jharkhand.
- JMT exports products to Malaysia, Dubai, USA, Brazil and other countries, besides supplying to large industries such as Tata Motors, Telcon, TAFE, L&T-Komatsu Ltd, Tata Cummins and Caterpillar in India.

Key Industries – Agro-Based Industry ... (1/2)

- 
- Jharkhand has a varied agricultural product-base that support a host of agro-based industries. The state's soil and climatic conditions also support the cultivation of ornamental plants, mushrooms, spices and tea.
 - Jharkhand has a large sericulture base. The state is one of the leading tussar (a non-mulberry silk) producers in the country.
 - Birla Institute of Technology (BIT), Ranchi conducts a three-year undergraduate course on food processing technology. The institute in collaboration with Department of Welfare, Government of Jharkhand carries out training programmes on food processing techniques.
 - A Mega Food Park is being set up at Getalsud, Ranchi on an area of 56 acre where 32 food processing units are likely to be established with basic facilities such as roads, drainage, water connection, power and cold storage chains.

Key Players

- Swastik Group
- We Group Mushroom

Key Industries – Agro-Based Industry ... (2/2)

Swastik Group



- Swastik Fruits Products Limited and Swastik Aqua Limited, two companies under Swastik Group produces mango juice (sold under 'Frooti' brand) and apple juice (sold under 'Appy Fizz' brand) for Parle Agro, one of the major processed food companies in India.
- The company has two state of the art units at Ranchi in Jharkhand.

We Group Mushroom

- Established in 2001, We Group is a food processing unit in the small-scale sector. It produces and distributes fresh mushrooms, mushroom seed and pickles.
- We Group has a plant in Dhanbad.

Jharkhand

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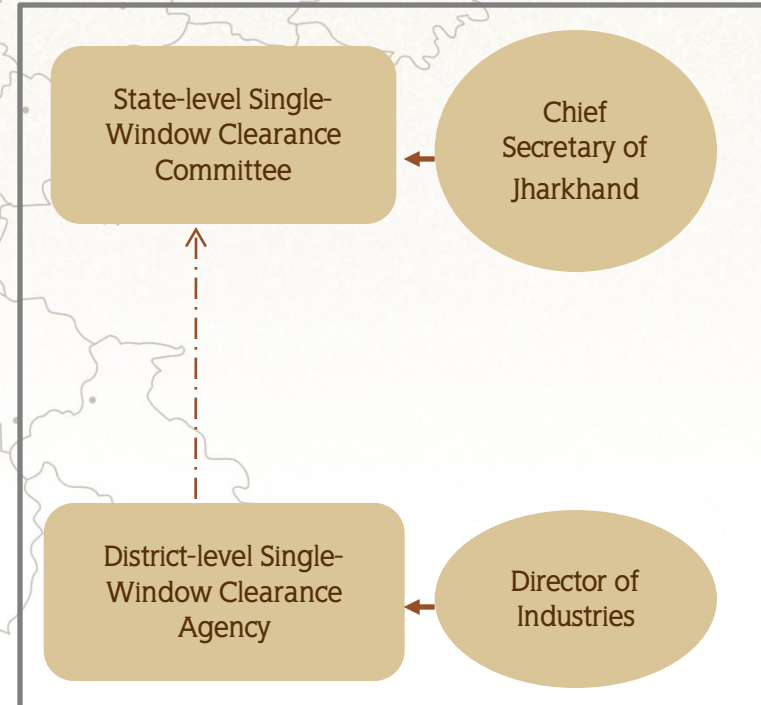


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Single-Window Clearance Mechanism

- The Government of Jharkhand has implemented a Single-Window Clearance System (SWS) for faster and one-point clearance of industrial projects, single-point dissemination of industrial project-related information and streamlining of inspection of industries by different agencies/authorities.
- At the state level, a committee has been formed under the chairmanship of the chief secretary, with secretaries from all departments concerned and representatives from banks and financial institutions as members, to facilitate speedy clearances for mega projects (investment above US\$ 11 million).
- A similar committee has been constituted at the district level under the chairmanship of the director of industries to review the progress of all investment proposals received.

- Officers from various departments (industries, land and revenue, commercial tax, labour and employment, forest and environment, Jharkhand State Electricity Board, Jharkhand State Pollution Control Board, and Damodar Valley Corporation) have been deputed to the SWS office to facilitate its smooth functioning.



Source: Government of Jharkhand Website,
www.jharkhandindustry.gov.in

Key Investment Promotion Offices ... (1/2)

Agency	Description
Department of Industries	<ul style="list-style-type: none"> The objective of this department is to accelerate economic development by facilitating investments in industries and infrastructure, developing required human resources for industrial employment, and supporting small and rural industries, artisans and craftsmen.
Department of Energy	<ul style="list-style-type: none"> The department formulates plans, policies, acts and rules, and undertakes developmental activities. It is responsible for the expansion of generation, transmission and use of electricity. The department has different corporations, authorities and undertakings such as Jharkhand State Electricity Board (JSEB), Tenughat Vidyut Nigam Limited, Jharkhand Renewable Energy Development Authority and the Electricity Licensing Board, under its supervision.
Adityapur Industrial Area Development Authority (AIADA)	<ul style="list-style-type: none"> The Adityapur Industrial Area is situated in the district of Seraikela Kharsawan, near Jamshedpur. AIADA controls an area of about 53 sq miles. It has so far developed 1,365 plots and 142 industrial sheds. There are 893 operating units in the AIADA-controlled area, which provide employment to about 27,900 persons. AIADA provides land, water, electricity and technical expertise to assist in the setting up of units in the industrial area.

Key Investment Promotion Offices ... (2/2)

Agency	Description
Bokaro Industrial Area Development Authority (BIADA)	<ul style="list-style-type: none"> • BIADA is located in Bokaro Steel City, which has several Small-Scale Industrial (SSI) units. • BIADA provides most of the industrial supplies for SAIL's Bokaro steel plant, which is the catalyst for the industrial units in BIADA.
Ranchi Industrial Area Development Authority (RIADA)	<ul style="list-style-type: none"> • RIADA controls industrial areas spread over the nine districts of Ranchi, Hazaribagh, Koderma, Palamu, Garhwa, Lohardagga, Khunti, Ramgarh and Gumla. • A total of 20 industrial estates have been developed by RIADA. • RIADA provides land, water, electricity and technical expertise to assist in setting up industries.
Jharkhand State Electricity Board (JSEB)	<ul style="list-style-type: none"> • After the formation of Jharkhand in 2000, JSEB was formed as a separate entity from the Bihar State Electricity Board (BSEB). • Apart from generating electricity, JSEB is involved in transmission and distribution throughout the state.

Contact List

Agency	Contact Information
Department of Industries, Government of Jharkhand	Nepal House, Doranda Ranchi - 834001, Jharkhand Phone: 91-651-2491 844 Fax: 91-651-2491 884 E-mail: jhr-doi@nic.in Website: http://jharkhandindustry.gov.in
Adityapur Industrial Area Development Authority (AIADA)	Vikas Bhawan Adityapur, Jamshedpur – 831013, Jharkhand Phone: 91-657-2371 646/460 E-mail: md@aiada.in Website: www.aiada.in
Ranchi Industrial Area Development Authority (RIADA)	RIADA Building, 5 th Floor, Namkun Industrial Area, Ranchi Website: www.riada.in

Key Approvals Required

Approvals and Clearances Required	Department
Allotment of Land/Acquisition of Land/Change of Land Use	Department of Industries, Government of Jharkhand, and District Collector
Approval of Building Plan	Industrial Area Development Authority and Local Bodies
Release of Power Connection and Consent for Setting up Captive Power Plant	Jharkhand State Electricity Board (JSEB)
Release of Water Supply	State Water Supply Board and Industrial Area Authority
Registration as a Factory	Chief Inspector of Factories
Sales Tax Registration	Revenue Department, Government of Jharkhand
Registration under Trade Union Act	Labour Department, Government of Jharkhand
Registration under Shops and Establishments Act	Labour Department, Government of Jharkhand
Registration under Industrial Disputes Act	Labour Department, Government of Jharkhand
Registration under Minimum Wages Act/Employee State Insurance Act	Labour Department, Government of Jharkhand

Cost of Doing Business in Jharkhand

Cost Parameter	Cost Estimate	Source
Land (per sq ft)*	US\$ 15 to US\$ 30	Industry Sources
Labour Cost (minimum wages per day)	US\$ 2.4 to US\$ 3.4	Ministry of Labour and Employment, Government of India
Hotel Costs (per room per night)	US\$ 75 to US\$ 150	Leading Hotels in the State
Residential Rent (2,000 sq ft per month)	US\$ 175 to US\$ 400	Industry Sources
Power Cost (per kWh)	Commercial: US 8.2 cents Industrial: US 7.3 cents – 9.1 cents	Jharkhand State Electricity Regulatory Commission
Water (per 1,000 gallons)	US 19 cents	Industry Sources

*Ranchi and Jamshedpur

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State Acts & Policies

Jharkhand Industrial Policy 2012

Objectives

- To establish linkages between large industries and MSME/ ancillary industries and to convert the state into a favoured destination for investors.
- To facilitate optimal utilisation of states mineral and other natural resources.

[Read more](#)

Jharkhand Energy Policy 2012

Objectives

- To supply reliable and quality power in an efficient manner at a reasonable price.
- To provide access to electricity to all households by 2014.

[Read more](#)

Special Economic Zone (SEZ) Policy 2003

Objective

- To provide a comprehensive framework for the operation and sustainability of SEZs in the state.

[Read more](#)

IT Policy

Objective

- To improve communications and IT infrastructure; focus on developing educational and human resources for effective governance.

[Read more](#)

Annexure

Exchange Rates

Year	INR equivalent of one US\$
2004-05	44.95
2005-06	44.28
2006-07	45.28
2007-08	40.24
2008-09	45.91
2009-10	47.41
2010-11	45.57
2011-12	47.94

Average for the year

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