

West Bengal

MARCH
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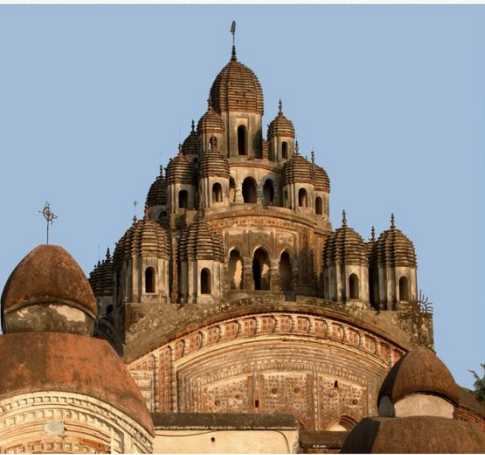
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- ❖ Infrastructure Status
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West Bengal Factfile



Source: Maps of India

- West Bengal is situated in Eastern India. The state shares the borders with Jharkhand, Bihar, Odisha, Sikkim and Assam. The state shares international borders with Bangladesh, Bhutan and Nepal. The Bay of Bengal is in the South of the state.
- Bengali is the official language of the state, though English and Hindi are also widely used. Nepali is spoken primarily in the Darjeeling district.

- Siliguri, Asansol, Durgapur, Raniganj, Kharagpur, Haldia, Darjeeling, Malda, Midnapore, Cooch Behar and Howrah are some of the key cities in the state.
- West Bengal's climate varies from tropical savannah in the Southern portions to humid sub-tropical in the North.

Parameters	West Bengal
Capital	Kolkata
Geographical area (sq km)	88,752
Administrative districts (No)	19
Population density (persons per sq km)*	1,029
Total population (million)*	91.3
Male population (million)*	46.9
Female population (million)*	44.4
Sex ratio (females per 1,000 males)*	947
Literacy rate (%)*	77.1

Sources: West Bengal Industrial Development Corporation Website, www.wbidc.com, *Provisional Data – Census 2011

West Bengal in Figures ... (1/2)



Parameter	West Bengal	All-States	Source
Economy			
GSDP as a percentage of all states' GSDP	6.9	100	CMIE, 2010-11, current prices
Average GSDP growth rate (%)*	14.6	15.9	CMIE, 2004-05 to 2010-11, current prices
Per capita GSDP (US\$)	1,166.3	1,324.3	CMIE, 2010-11, current prices
Physical Infrastructure			
Installed power capacity (MW)	8,583.2	211,766.2	Central Electricity Authority, as of January 2013
Wireless subscribers (No)	65,687,139 [^]	864,720,186	Telecom Regulatory Authority of India, as of December 2012
Broadband subscribers (No)	579,975 [#]	13,350,938	Ministry of Communications & Information Technology, as of December 2011
National Highway length (km)	2,681	76,818	Ministry of Road Transport & Highways, as of June 2012
Major and minor ports (No)	1 + 1	12 + 187	Indian Ports Association
Airports (No)	3	133	Airport Authority of India



*Calculated in Indian Rupee Terms
[^]Including Sikkim and Andaman & Nicobar
[#]Including Sikkim

West Bengal in Figures ... (2/2)

Parameter	West Bengal	All-States	Source
Social Indicators			
Literacy rate (%)	77.1	74.0	Provisional Data – Census 2011
Birth rate (per 1,000 population)	16.3	21.8	SRS Bulletin (www.censusindia.gov.in), 2012
Investments			
FDI equity inflows (US\$ billion)	2.1*	187.9	Department of Industrial Policy & Promotion, April 2000 to December 2012
Outstanding investments (US\$ billion)	514.0	11,318.3	CMIE (2011-12)
Industrial Infrastructure			
PPP projects (No)	36	881	www.pppindia database.com
SEZs (No)	11	386	Notified as of January 2013, www.sezindia.nic.in

* FDI inflows for Reserve Bank of India's (RBI's) Kolkata region, which includes West Bengal, Sikkim and Andaman & Nicobar Islands
PPP: Public Private Partnership, SEZ: Special Economic Zone, SRS: Sample Registration System

Advantage West Bengal ... (1/2)

Geographical Advantage

Because of its location, West Bengal offers definite advantage as the traditional domestic market in Eastern India, the Northeast and the land-locked countries of Nepal and Bhutan, which are easily accessible. The state is also an entry point to markets in Southeast Asia, via the Northeastern states.

Competitive Cost of Operation

Kolkata, which is a metropolitan city, has a comparatively lower cost of operating a business as compared to the other metropolitan cities of India.

Endowed with Natural Resources

West Bengal has abundant natural resources of minerals and suitable agro-climatic conditions for agriculture, horticulture and fisheries. West Bengal also has a prosperous hinterland of some mineral rich states like Jharkhand, Bihar and Odisha.

Advantage West Bengal ... (2/2)

Educational Infrastructure

The state is home to a number of renowned educational institutions and higher learning centres. There are 22 universities in the state along with sizeable research institutes.

Excellent Connectivity

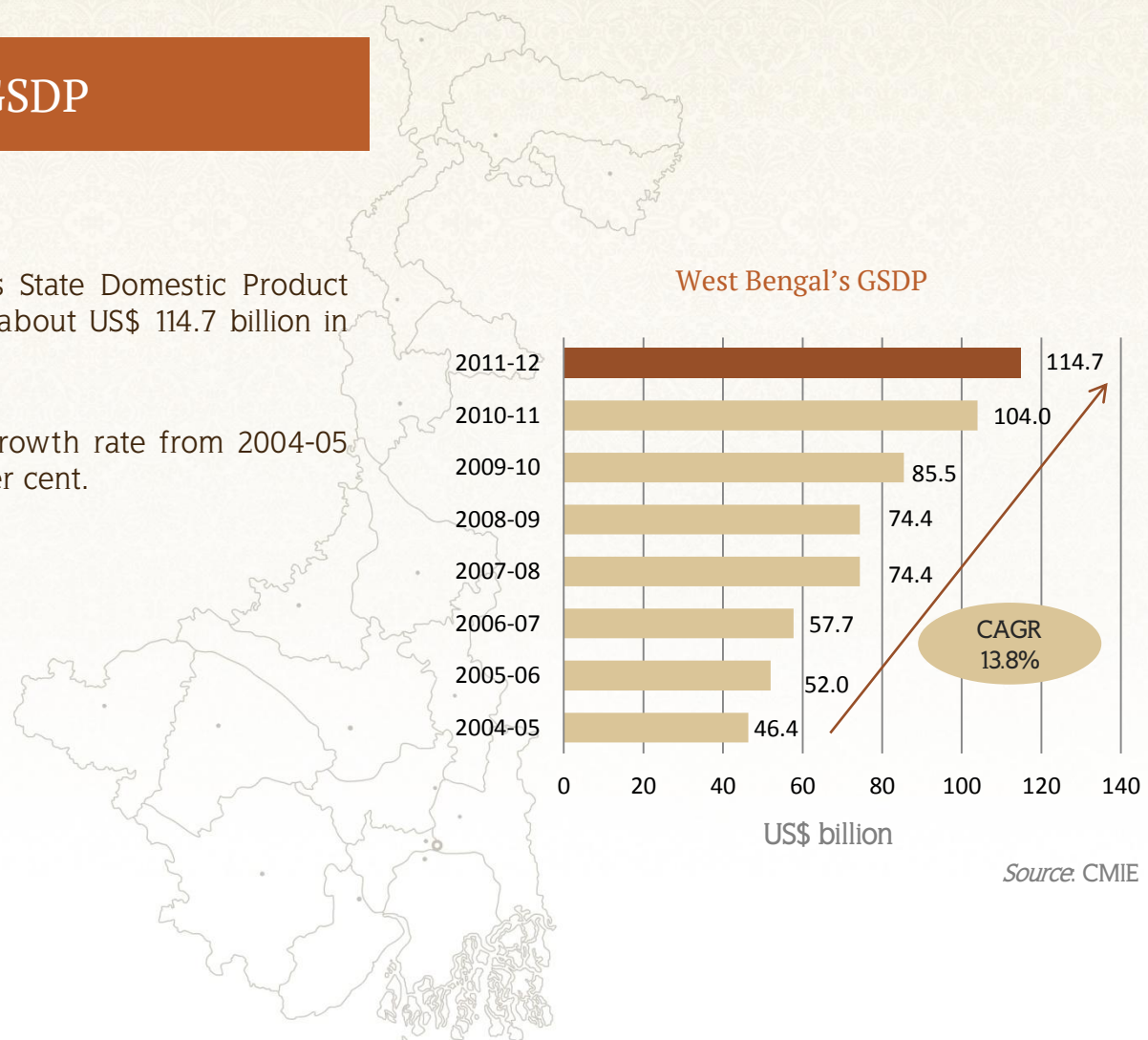
West Bengal offers excellent connectivity to the rest of India in terms of railways, roadways, ports and airports. Major stretches of the golden quadrilateral project also pass through the Northern districts of the state.

Large English Speaking Population

Knowledge of English is an advantage of the workforce of West Bengal, especially in Kolkata, which is one of the four metropolitan cities of India.

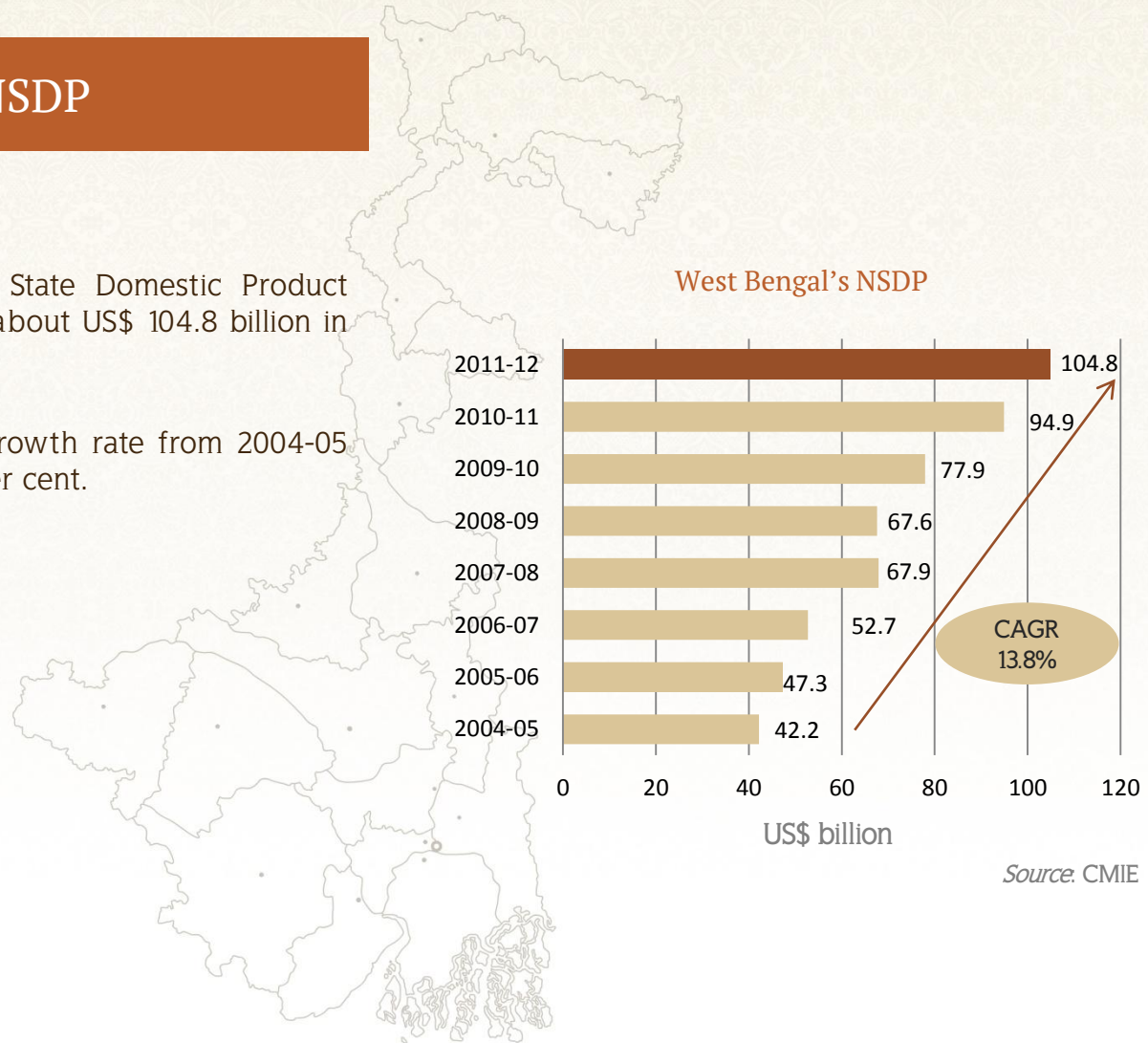
Economic Snapshot – GSDP

- At current prices, the Gross State Domestic Product (GSDP) of West Bengal was about US\$ 114.7 billion in 2011-12.
- The average annual GSDP growth rate from 2004-05 to 2011-12, was about 13.8 per cent.



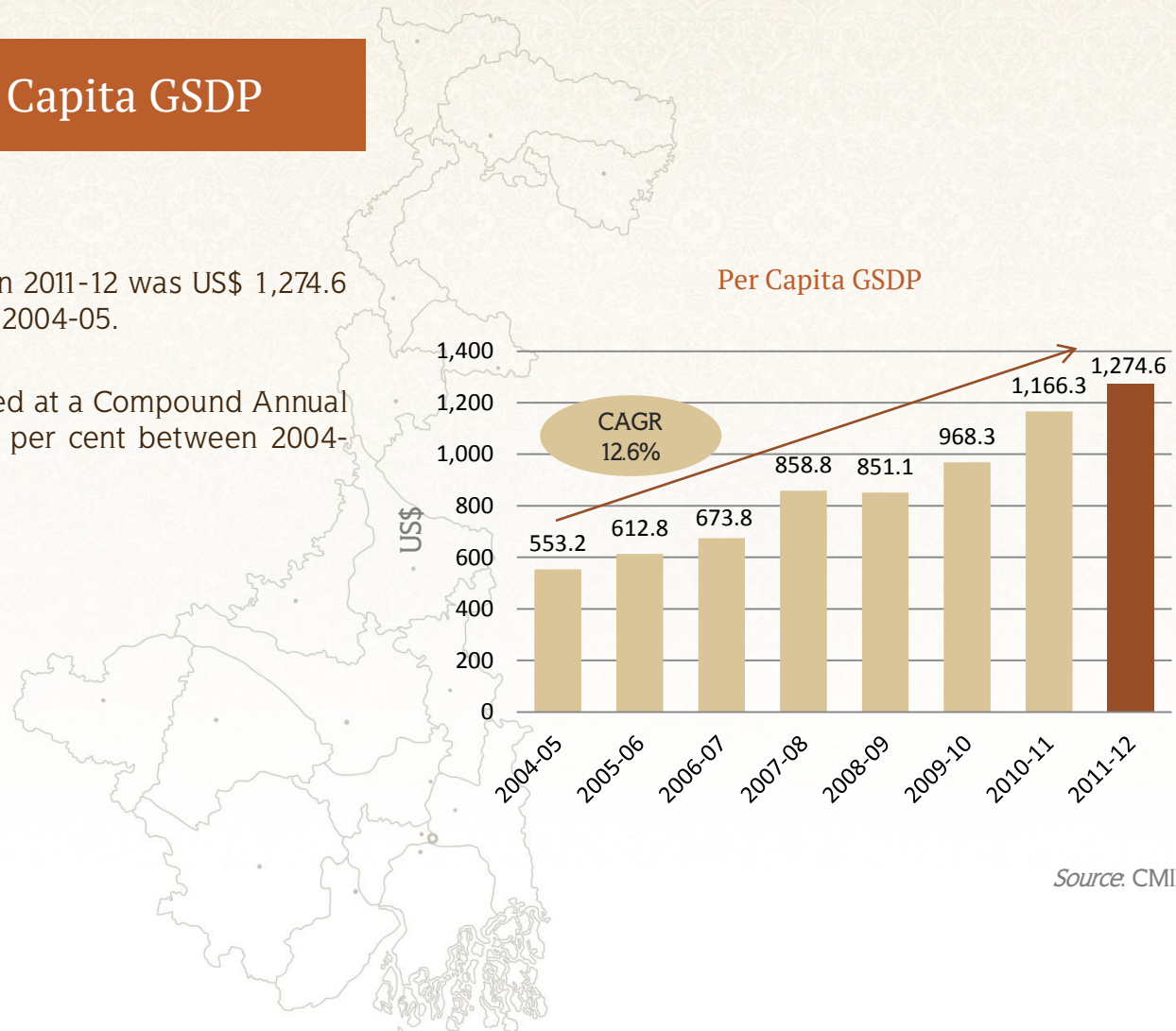
Economic Snapshot – NSDP

- At current prices, the Net State Domestic Product (NSDP) of West Bengal was about US\$ 104.8 billion in 2011-12.
- The average annual NSDP growth rate from 2004-05 to 2011-12, was about 13.8 per cent.



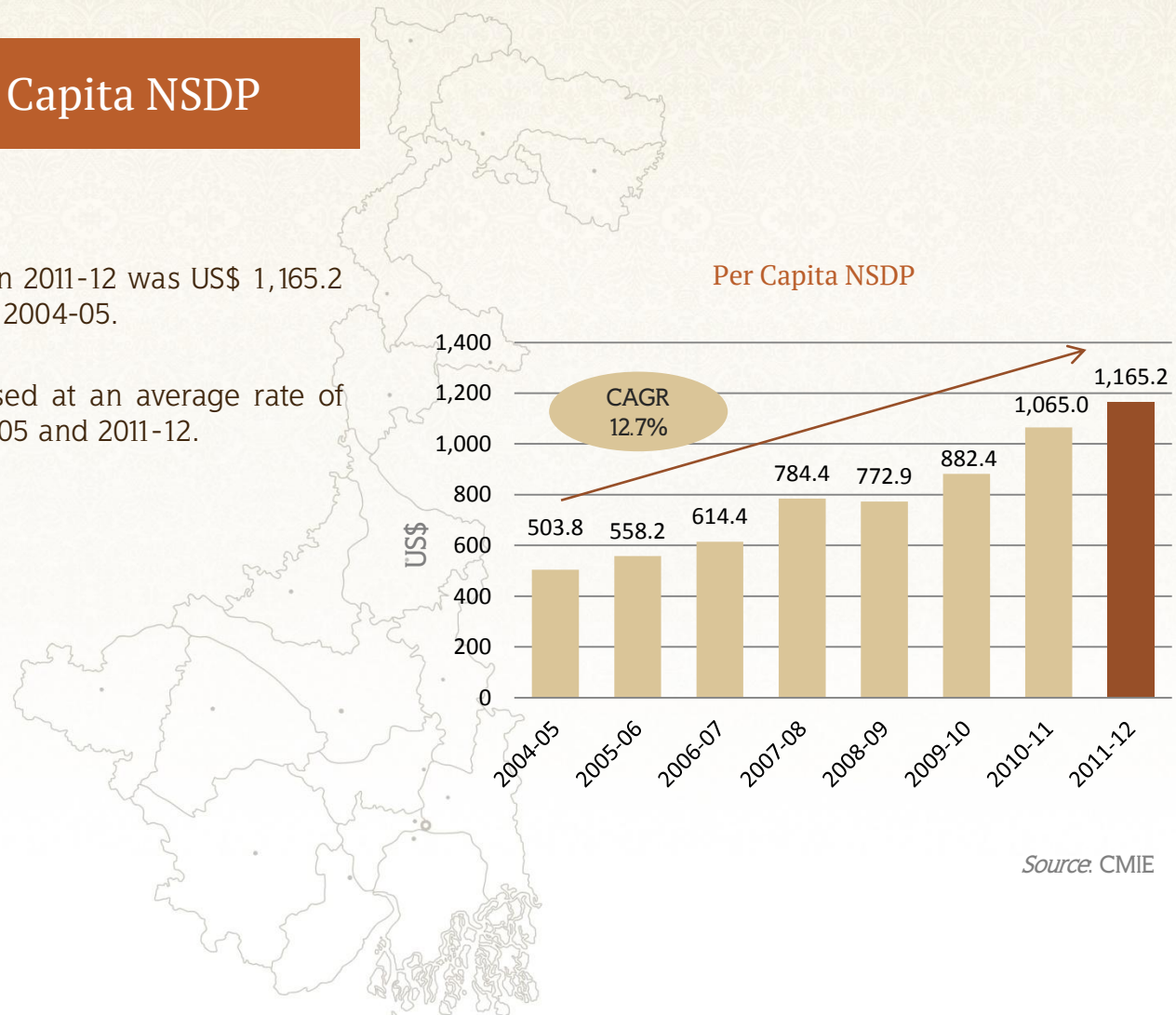
Economic Snapshot – Per Capita GSDP

- The state's per capita GSDP in 2011-12 was US\$ 1,274.6 as compared to US\$ 553.2 in 2004-05.
- The per capita GSDP increased at a Compound Annual Growth Rate (CAGR) of 12.6 per cent between 2004-05 and 2011-12.



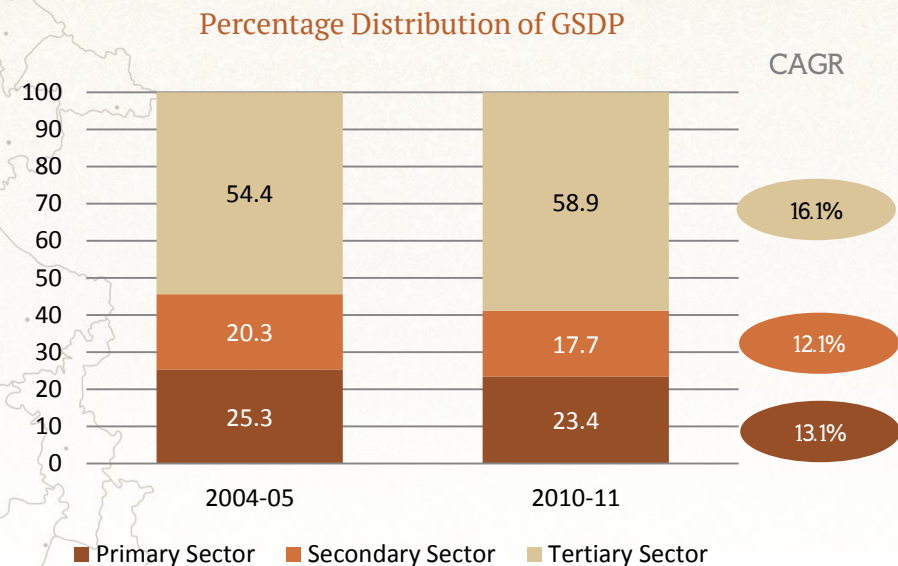
Economic Snapshot – Per Capita NSDP

- The state's per capita NSDP in 2011-12 was US\$ 1,165.2 as compared to US\$ 503.8 in 2004-05.
- The per capita NSDP increased at an average rate of 12.7 per cent between 2004-05 and 2011-12.



Economic Snapshot – Percentage Distribution of GSDP

- In 2010-11, the tertiary sector contributed 58.9 per cent to the state's GSDP at current prices, followed by primary sector (23.4 per cent) and secondary sector (17.7 per cent).
- At a CAGR of 16.1 per cent, the tertiary sector has been the fastest growing among the three sectors from 2004-05 to 2010-11. 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 13.1 per cent between 2004-05 and 2010-11.
- The secondary sector grew at a CAGR of 12.1 per cent between 2004-05 and 2010-11. It was driven by manufacturing, construction and electricity, gas & water supply.



Source: CMIE

Economic Snapshot – Agricultural Production

- Agriculture is the chief occupation of the people of West Bengal. It contributed around 18.6 per cent to the state's GSDP in 2010-11.
- Rice, potato, jute, sugarcane and wheat are the top five crops of the state.
- Rice is the principal food crop of West Bengal. The state is one of the largest producer of rice in India. In 2010-11 the total rice production was 13.3 million tonnes.
- Other major food crops in the state include rapeseed & mustard, maize, onion, pulses, coconut and tea.
- The state stands first in the country in jute production. In 2010-11, the state produced nearly 77.0 per cent of the country's total jute production.
- Tea is another important cash crop. Tea gardens in the state are located in Darjeeling and Jalpaiguri, the two Northern districts of West Bengal.

Crop	Annual Production - 2010-11 ('000 metric tonnes)
Potato	13,421.0
Rice	13,389.6
Jute	8,137.5*
Sugarcane	1,134.1
Wheat	874.4
Rapeseed & mustard	419.6
Maize	352.3
Onion	298.0
Coconut	245.0
Tea	225.6^
Total Pulses	176.6

Sources: Economic Review of West Bengal 2011-12, Indian Horticulture Database-2011, National Horticulture Board,

Tea Board of India

* '000 Bales (180 kg each)

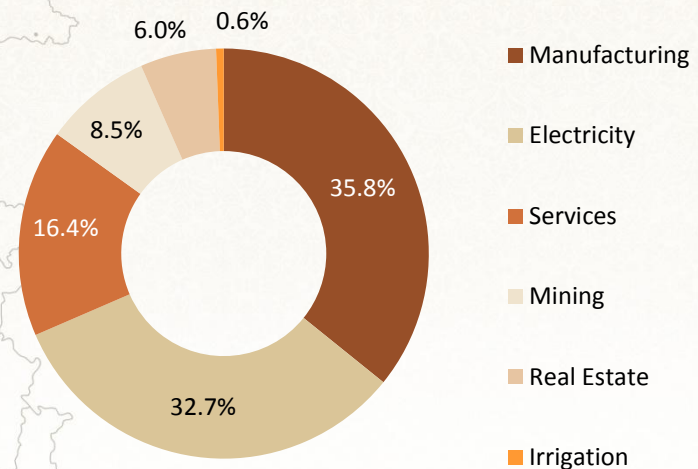
^In 2011-12

Economic Snapshot – FDI Inflows & Investments

- According to the Department of Industrial Policy & Promotion (DIPP), the cumulative FDI inflows from April 2000 to December 2012 amounted to US\$ 2.14 billion*.
- In 2011-12, outstanding investments in the state were US\$ 514 billion.
- Of the total outstanding investments, the manufacturing sector accounted for around 35.8 per cent followed by electricity sector (32.7 per cent).

*FDI inflows for Reserve Bank of India's (RBI's) Kolkata region, which includes West Bengal, Sikkim and Andaman & Nicobar Islands

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

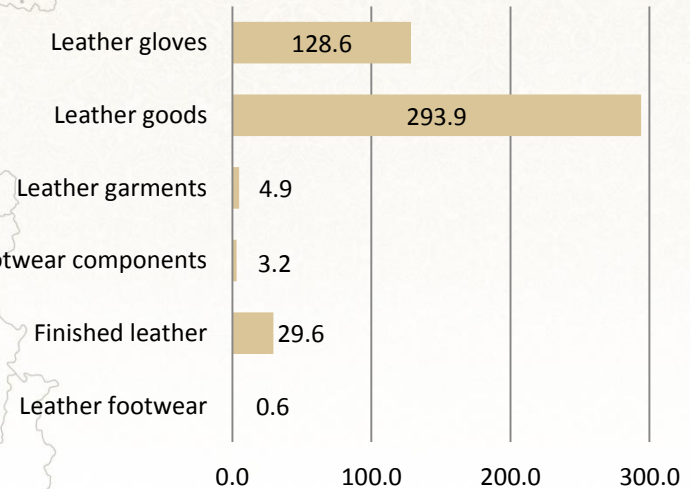


Source: CMIE

Economic Snapshot – Export Trends

- West Bengal is one of the country's leading exporters of finished leather goods. The state's export from leather industry constitutes about 55.0 per cent of India's total leather goods exports.
- West Bengal is also the country's leading exporter of flowers.
- The state has the country's largest brackish-water resources for shrimp farming and, has been a leading exporter of shrimps from India.
- West Bengal is also a leading tea exporter.
- The total IT Exports from STPK (Software Technology Park) and Non-STPK Parks in West Bengal touched US\$ 1.65 billion in 2011-12.

Exports of Leather and Leather Products - 2009-10
(US\$ million)



Source: West Bengal Industrial Development Corporation Ltd, Annual Report 2009-10

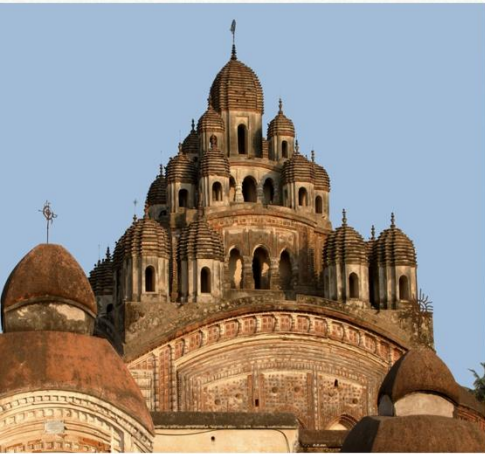
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Physical Infrastructure – Roads ... (1/2)

- West Bengal has a total road length of around 299,209 km, with a road density of around 3.37 km per sq km. There are 19 National Highways running through the state, covering 2,681 km.
- The Golden Quadrilateral (GQ) project undertaken by the National Highway Authority of India (NHAI) passes through major districts in North part of West Bengal. As of August 2012, four-laning of Dhankuni-Kolaghat (54.4 km) Kolaghat-Kharagpur (60.5 km) and Kharagpur-Laxmanath (65.8 km) sections had been completed.



Road Type	Road Length (km)
Total Road Length	299,209
National Highways	2,681
State Highways	4,505

Source: Ministry of Road Transport & Highways

Physical Infrastructure – Roads ... (2/2)



- A number of road development projects have been taken up under Public Private Partnerships (PPP). The Barasat-Krishnanagar section, Farakka Raiganj , Palsit-Dankuni road project and Panagarh-Palsit road project are some of the PPP projects taken up in the state.
- The construction of an underpass near Bidhan Nagar railway station on the southern side of new-cut canal is in progress. This project will provide direct connectivity of Kolkata Terminal to VIP Road.

Source: Maps of India

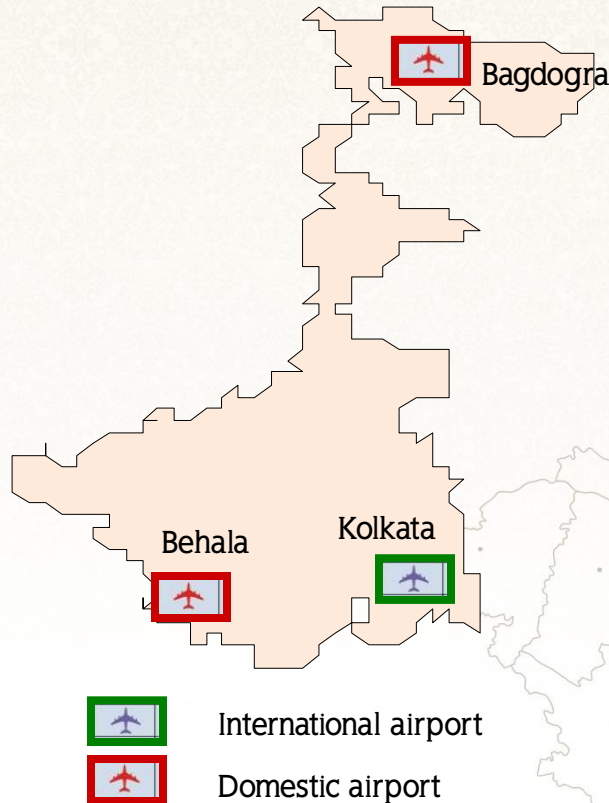
Physical Infrastructure – Railways



Source: Maps of India

- West Bengal is well connected through the railway network. The railway route length in the state is around 4,511 km.
- Howrah, Asansol, Sealdah, Bandel, Bardhaman, Kharagpur and New Jalpaiguri are the main junctions in West Bengal.
- The Indian Railways has an electric locomotive production unit – Chittaranjan Locomotive Works (CLW) located on the West Bengal-Jharkhand border, with a production capacity of 230 engines.
- Indian Railways has already started work to set up an electric locomotive assembly and ancillary unit at Dankuni, West Bengal.

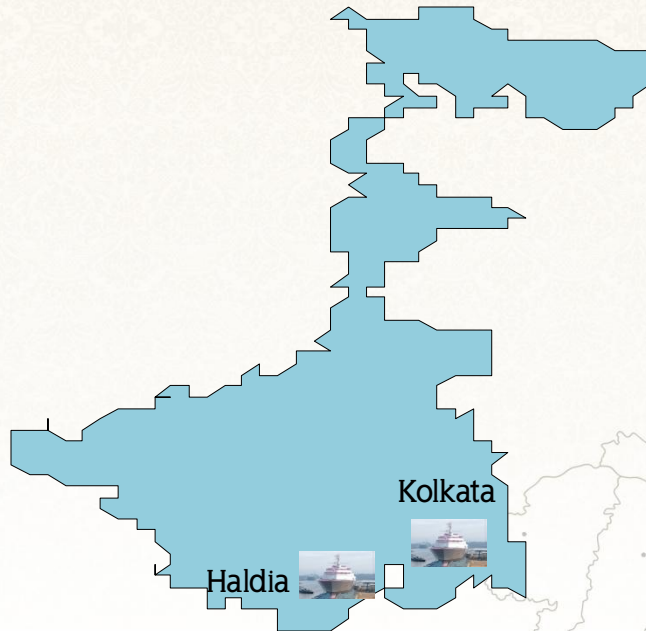
Physical Infrastructure – Airports



- The Netaji Subhash Chandra Bose International Airport is located in Dum Dum, 18 km from Kolkata; the domestic airports are at Bagdogra (Siliguri) and at Behala 16 km from Kolkata.
- In 2011-12, the total commercial traffic at Kolkata airport included about 10,303,991 passengers and 125,593 tonnes of cargos.
- The Government of India has sanctioned US\$ 680,000 to set up a perishable cargo complex at the Bagdogra airport.
- The Kolkata airport is being modernised at a estimated cost of US\$ 521 million. It will include a new terminal, modern taxiways and extension of a runway. The upgrade will raise the airport's handling capacity to around 25 million passengers, annually, against the annual capacity of 10.3 million as of March 2012.
- Bengal Aerotropolis Projects Limited (BAPL) is developing India's first set of airport cities – 'Aerotropolis' near the Durgapur-Asansol region at a cost of around US\$ 2.2 billion.

→ West Bengal has two domestic and an international airport.

Physical Infrastructure – Ports and Inland Waterways

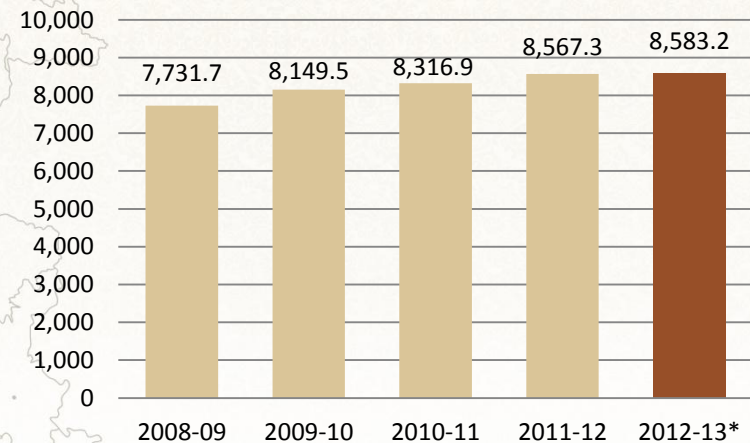


- West Bengal has two modern ports located at Kolkata and Haldia; Kolkata is a major port.
- In 2011-12, the combined volume of goods handled by both the ports was over 43.24 million tonnes.
- DP World is developing a greenfield container terminal on the east bank of river Hooghly in Kulpi. The port will have 900 mtr quay line and 34 hectares of paved yard.
- Government of India has declared the entire stretch of the Ganges between Haldia and Allahabad as National Waterway (NW-1).
- The 560 km Haldia-Farakka stretch of NW-1 has been developed as a part of the multi-modal system for cargo tariff from Nepal, Bhutan, North Bengal and the Northeastern states.
- The State Government has initiated plans to reclaim the 43 km north-canal system that stretches from the river Hoogly to river Raimangal on the Bangladesh border.

Physical Infrastructure – Power

- As of January 2013, West Bengal had a total power generation installed capacity of 8,583.29 MW, which comprised of 6,202.46 MW under state utilities, 1,369.57 MW under the private sector and 1,011.26 MW under the central utilities.
- Of the total installed power capacity, 7,229.54 MW was contributed by thermal power, 1,182.30 MW was contributed by hydropower and renewable power contributed 171.45 MW.
- West Bengal Renewable Energy Development Agency, formed in the year 1993, has implemented a large number of programmes related to solar energy, wind energy, mini & micro hydel, bio-energy, etc.
- West Bengal State Electricity Distribution Company Limited (WBSEDCL) has come into effect from April 1, 2007 after restructuring of erstwhile West Bengal State Electricity Board. WBSEDCL is a major power utility of the state with a consumer strength of over 10 million, five zones, 17 regional offices, 53 distribution divisions and 464 customer care centres.

Installed Power Capacity (MW)



Source: Central Electricity Authority
*As of January 2013

Physical Infrastructure – Telecom

- According to Telecom Regulatory Authority of India (TRAI), there were 65.6 million[^] wireless connections and 1.7 million[^] wire-line subscribers in West Bengal, as of December 2012.
- Kolkata offers about 580 Mbps of international satellite connectivity through Tata-owned Videsh Sanchar Nigam Limited (VSNL) and Software Technology Parks of India (STPI).
- The state has five STPI earth stations at Kolkata, Durgapur, Kharagpur, Haldia, and Siliguri. The Department of Telecommunications has selected Digha in the East Midnapore district as the cable landing station for the submarine-cable laying project connecting India and Southeast Asia.
- As of December 2011, the state had 1,380 telephone exchanges.

Telecom Infrastructure (December 2012)

Wireless Subscribers [^]	65,687,139
Wire-line Subscribers [^]	1,745,112
Broadband Subscribers#	579,975*
Telephone Exchanges	1,380*
Teledensity (in per cent) [^]	73.19

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

*As of December 2011

[^]Including Sikkim and Andaman & Nicobar

#Including Sikkim

Some of the Major Telecom Operators in West Bengal

Dishnet Wireless
Bharti Airtel
Bharat Sanchar Nigam Limited (BSNL)
IDEA Cellular
Reliance Communications
Vodafone Essar
Tata Teleservices

Development Projects: Urban Infrastructure

- Under the Jawaharlal Nehru National Urban Renewal Mission (JNNURM), 71 projects costing US\$ 1.53 billion have been sanctioned for West Bengal. The projects have been sanctioned between 2006-07 and 2011-12. Key areas of development are water supply, sewerage, solid-waste management, construction of flyovers, drainage/storm water drains and mass rapid transport system.
- Under the JNNURM, the schemes for all urban areas of the state, except the Kolkata Metropolitan Area and Asansol Urban Area, have been included under the schemes of Urban Infrastructure Development Scheme for Small & Medium Towns (UIDSSMT) and Integrated Housing & Slum Development Programme (IHSDP).
- Under the UIDSSMT scheme, projects for 25 small and medium towns have been sanctioned at an estimated cost of US\$ 84.6 million.

→ Externally aided programmes are as follows:

Project	Description
Kolkata Urban Services for the Poor (KUSP)	Programme for 40 Urban Local Bodies (ULBs) within Kolkata Metropolitan Area, excluding Kolkata Municipal Corporation, at a cost of US\$ 155 million.
Kolkata Environment Improvement Project (KEIP)	Project with the assistance from the Asian Development Bank and the Department for International Development (DFID), at a cost of US\$ 401.3 million.
Italian Assisted Solid Waste Management & Water Supply Projects	Project for water supply and solid-waste management in selected towns of West Bengal, at a cost of US\$ 34 million.

Development Projects: Key Public Private Partnership Projects



Project Name	Sector	PPP Type	Project Cost (US\$ million)	Stage
Farakka-Raiganj	Roads	BOT-Toll	287.5	Construction
Realignment to Ghoshpukur-Salsalabari	Roads	BOT	250.3	Under Bidding
Baharampore-Farakka	Roads	BOT-Toll	243.8	Construction
Raiganj-Dalkhola	Roads	BOT-Toll	142.7	Construction
Vivekananda Bridge and Approach	Roads	BOT	140.0	Construction
Office cum Institutional cum Commercial Complex at Salt Lake	Urban Development	Lease	104.2	Construction
Palsit-Dankuni	Roads	BOT-Annuity	93.9	In Operation
Panagarh-Palsit	Roads	BOT-Annuity	76.1	In Operation
Stadium based Commercial Complex at Rajdanga	Urban Development	BOO	42.9	Construction
Multi purpose berth 4A at HDC Kolkata Port Trust	Ports	BOT	31.2	In Operation

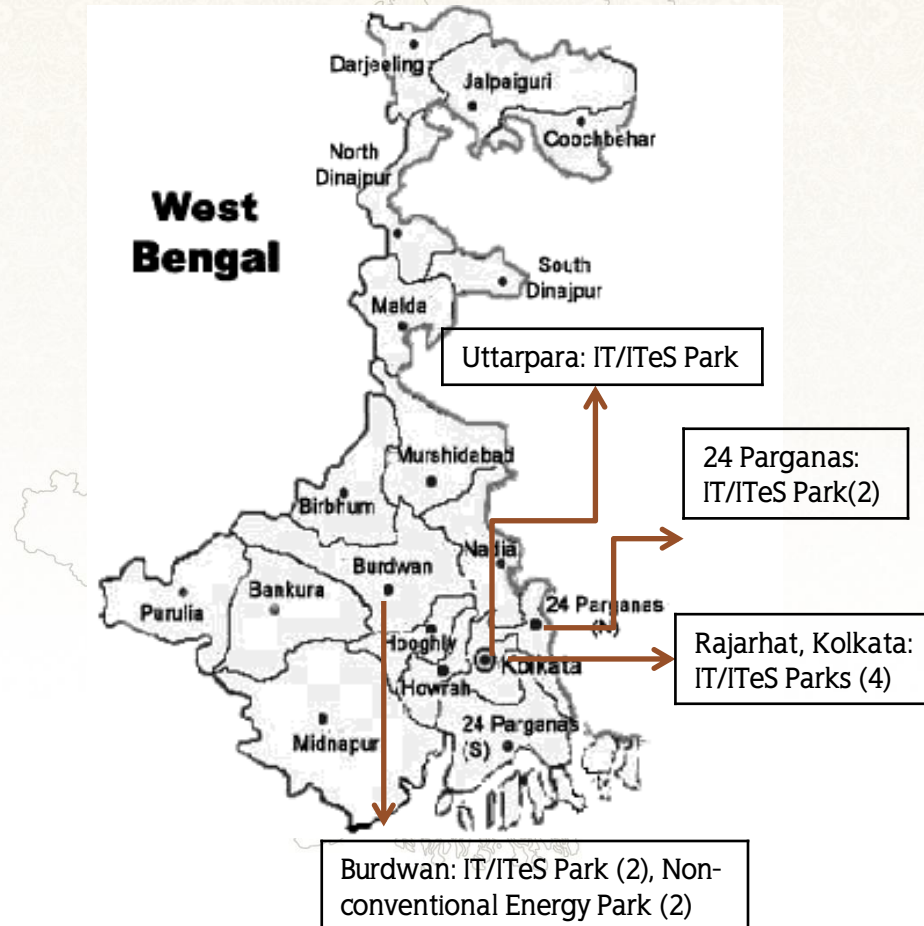


Source: www.pppindiadatabase.com

BOT: Build-Operate-Transfer, BOO: Build-Own-Operate

Development Projects: SEZs ... (1/2)

Notified SEZs in West Bengal



Development Projects: SEZs ... (2/2)

Formally Approved SEZs*

Industry	Locations	No of SEZs
IT/ITeS	Kolkata, Rajarhat, 24 South Paraganas, Burdwan, Asansol, Uttarpura, North 24 Parganas	16
Leather Products	Kolkata (West Bengal)	1
Free Trade Warehousing Zone	Haldia	1
Non-conventional Energy	Burdwan	2

*As of January 2013
Source: sezindia.nic.in

SEZs with In-Principal Approval*

Industry	Locations	No of SEZs
Auto Component	Kharagpur, West Bengal	1
Textiles	Dankuni Township, West Bengal	1
Metal	Haldia East Mednipur, West Bengal	1

*As of January 2013
Source: sezindia.nic.in

Social Infrastructure – Education ... (1/2)

- West Bengal has a literacy rate of 77.1 per cent according to the provisional data of Census 2011; the male literacy rate is 82.7 per cent and the female literacy rate is 71.2 per cent.
- In 2010-11, the state had 70,757 Primary and Junior Schools and 9,225 High and Higher Secondary schools.
- In 2010-11, the state had pupil-teacher ratio of 30:1 in all schools.

Literacy Rates (%)	
Literacy Rate	77.1
Male Literacy	82.7
Female Literacy	71.2

Source: Census 2011 (provisional data)

West Bengal's Education Statistics (2010-11)	
Number of Schools	Primary and Junior high: 70,757 High and Higher Secondary: 9,225
Pupil-Teacher Ratio	All Schools: 30:1
Enrolment of Students in Schools	Primary: 10,231,570 Upper Primary: 4,700,195
Number of Teachers (All Schools)	Government Teachers: 416,633 Private Teachers: 59,295

Sources: Economic Review of West Bengal 2011-12, State Report Card, www.dise.in

Social Infrastructure – Education ... (2/2)

- West Bengal has 22 Universities, 95 Polytechnics, 49 Industrial Training Institutes and Industrial Training Centres and 15 Medical Colleges.
- The West Bengal Government Merit-Cum-Means Scholarship Scheme has been instituted for providing financial assistance to the poor and meritorious students of the state for pursuing higher education. The scholarship amount varies from US\$ 10 to US\$ 33 per month.

Educational Infrastructure

- Universities: 22
- Polytechnics: 95
- Industrial Training Institutes and Industrial Training Centres: 49
- Medical Colleges: 15

Premier Institutions in West Bengal

- University of Calcutta
- Jadavpur University
- National Institute of Technology
- Rabindra Bharati University
- Vidyasagar University
- Burdwan University
- West Bengal University of Health Sciences
- Indian Statistical Institute
- Indian Institute of Technology
- Indian Institute of Management
- Bengal Engineering & Science University
- Indian Institute of Foreign Trade
- Indian Association for Cultivation of Science
- Indian Institute of Chemical Biology

Sources: University Grants Commission, Government of India, Medical Council of India, All India Council for Technical Education, West Bengal Technical Education & Training Department

Social Infrastructure – Health ... (1/2)

- The health infrastructure of West Bengal comprised of 2,312[^] Hospitals, 1,257 Health Centres and 10,356 Sub-Centres, as of 2010-11.
- Bardhaman health city, the first health project in West Bengal is being set up near the Durgapur Expressway, at a cost of US\$ 219.4 million.
- The health city will have facilities such as general hospital, specialty centres, nursing homes, medical college, dental college, nursing college, staff accommodation, hotel, entertainment facilities and the other peripheral activities.

Health Indicators (2011)	
Birth Rate*	16.3
Death Rate*	6.2
Infant Mortality Rate**	32

Source: Sample Registration System (SRS) Bulletin 2012
(www.censusindia.gov.in)

*Per thousand persons

**Per thousand live births

Health Infrastructure - as of 2010-11 (P)	
Hospitals	2,312 [^]
Total Beds	107,346 [^]
Health Centres	1,257
Sub-Centres	10,356

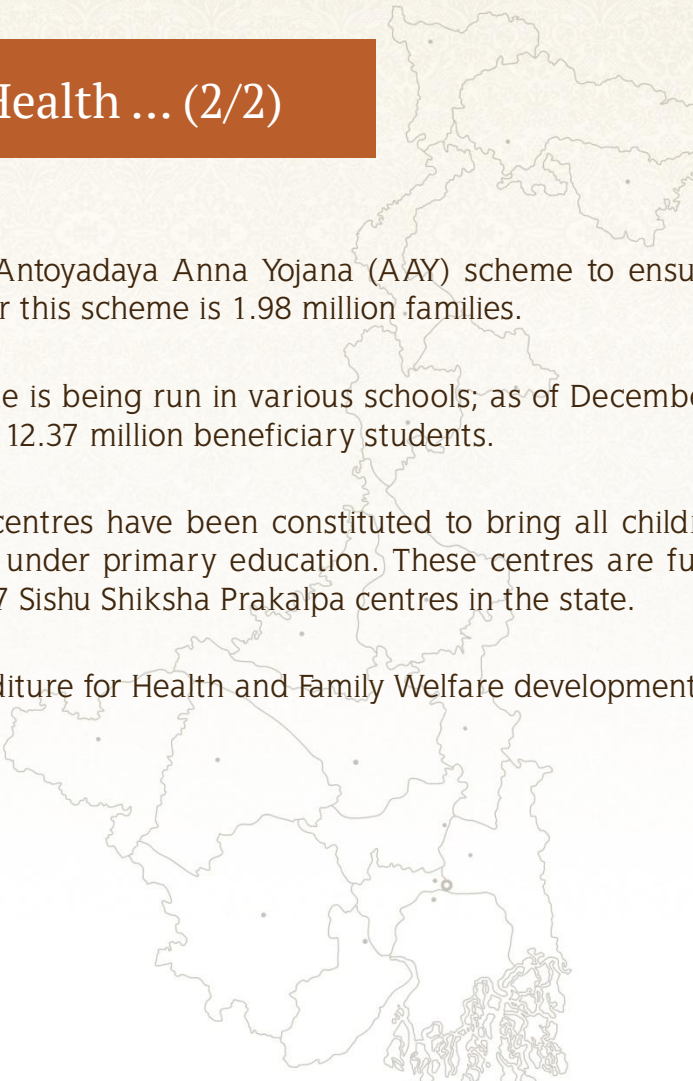
Source: Economic Review of West Bengal 2011-12

[^]Including Private Institutions

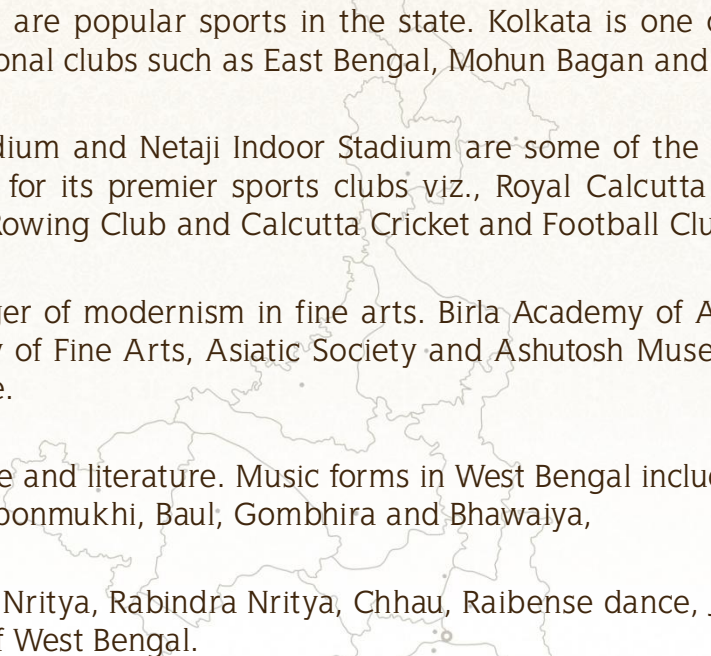
(P): Provisional

Social Infrastructure – Health ... (2/2)

- The state has launched the Antoyadaya Anna Yojana (AAY) scheme to ensure that families get food grains; total number of beneficiaries under this scheme is 1.98 million families.
- The Mid-Day-Meal Programme is being run in various schools; as of December 2011, there were 86,288 schools are running the programme with 12.37 million beneficiary students.
- The Sishu Shiksha Prakalpa centres have been constituted to bring all children in the age between five and nine years in the municipal areas under primary education. These centres are funded by the State Government. As of August 2011, there were 1,067 Sishu Shiksha Prakalpa centres in the state.
- In 2011-12, the budget expenditure for Health and Family Welfare development of the state was US\$ 778.4 million.



Cultural Infrastructure

- 
- Cricket and Football (Soccer) are popular sports in the state. Kolkata is one of the major centres for football in India and, is home to top national clubs such as East Bengal, Mohun Bagan and Mohammedan Sporting Club.
 - Eden Gardens, Salt Lake Stadium and Netaji Indoor Stadium are some of the well known sports stadiums in the state. West Bengal is known for its premier sports clubs viz., Royal Calcutta Golf Club, Tollygunge Club, Royal Calcutta Turf Club, Calcutta Rowing Club and Calcutta Cricket and Football Club.
 - Bengal had been the harbinger of modernism in fine arts. Birla Academy of Art and Culture Museum, Rashtriya Lalit Kala Academy, Academy of Fine Arts, Asiatic Society and Ashutosh Museum of Indian Arts are some of the art establishments in the state.
 - West Bengal has a rich culture and literature. Music forms in West Bengal include Rabindra Sangeet, Nazrul Geeti, Adhunik, Shyamashangeet, Jibonmukhi, Baul, Gombhira and Bhawaiya,
 - Dance forms include Gaudiya Nritya, Rabindra Nritya, Chhau, Raibense dance, Jhumar and Adhunik Nritya. Jatra is the traditional theatre form of West Bengal.

Industrial Infrastructure ... (1/3)

- West Bengal has 12 growth centres for medium and large scale industries, set up by the West Bengal Industrial Development Corporation (WBIDC). There are exclusive growth centres for electronics, software technology, and export processing.
- The Naba Diganta Industrial Township was set up in January 2006, in Kolkata's Salt Lake township, to encourage IT and related industries.
- West Bengal's major industrial areas are Haldia, Kolkata, Asansol-Durgapur region, and Kharagpur.
- WBIDC helps get clearances required for setting up industry. It also focuses on sector-specific infrastructure for industries such as food, apparel, IT, electronics, engineering, gems & jewellery, cement and chemical.

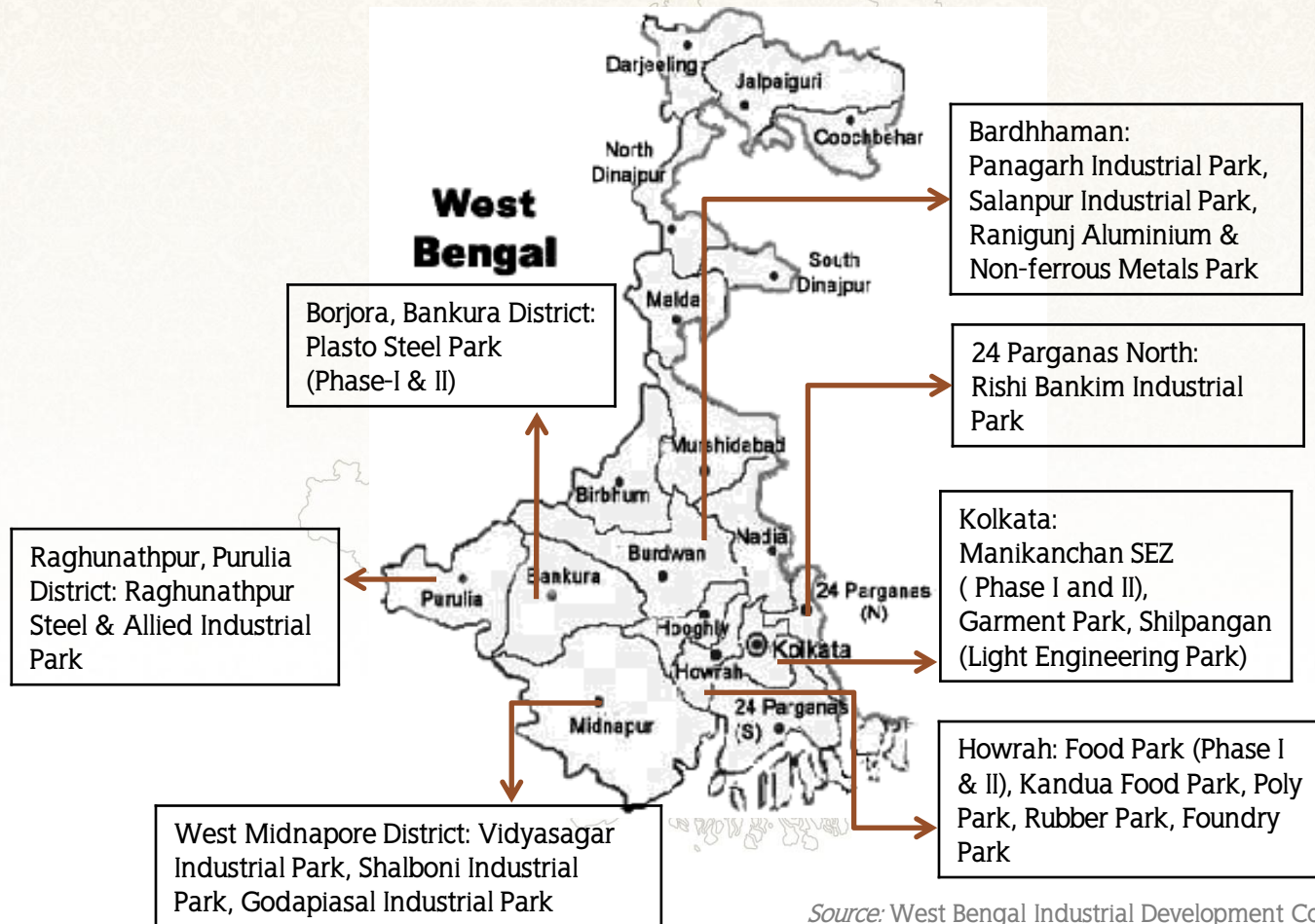
Some of the IT Projects in Kolkata

Project Name	Location
Technopolis	Sector V, Salt Lake City
Globsyn Crystals	Sector V, Salt Lake City
Infinity-Benchmark	Sector V, Salt Lake City
Godrej Waterside	Sector V, Salt Lake City
Millennium City	Sector V, Salt Lake City
The Hub	Sector V, Salt Lake City
Infinity (Tower-II)	Sector V, Salt Lake City
Videocon-Salarpuria	Sector V, Salt Lake City
Bengal Intelligent Park	Sector V, Salt Lake City
Ascendas	Rajarhat
Keepeland	Rajarhat
DLF	Rajarhat
Unitech Group	Rajarhat
Sunrise City	EM Bypass

Source: West Bengal Industrial Development Corporation

Industrial Infrastructure ... (2/3)

Industrial Parks in West Bengal



Source: West Bengal Industrial Development Corporation

Industrial Infrastructure ... (3/3)



Some of the Industrial Parks in West Bengal

Name	Products/Services	Location
Food Park (Phase-I & II)	Food Processing	Sankrail, (Howrah District)
Poly Park	Polymer Products	Sankrail, (Howrah District)
Rubber Park	Rubber Footwear, Hoses, Tubes, Automotive Rubber Products	Sankrail, (Howrah District)
Kolkata Biotech Park	Biotechnology Products	Kolkata
Plasto Steel Park (Phase-I & II)	Iron and Steel and Plastic Products	Borjora (Bankurna District)
Vidyasagar Industrial Park	Engineering and Manufacturing	Kharagpur (West Midnapore District)
Raghunathpur Steel & Allied Industrial Park	Iron & Steel, Cement and Power	Raghunathpur, (Purulia District)
Foundry Park (Phase-I & II)	Castings, Forge and Foundry Products	Sankrail, (Howrah District)
Rishi Bankim Industrial Park	Multi Product	24 Parganas North
Garment Park	Garments	Kolkata
Shilpangan (Light Engineering Park)	Light Engineering Products	Kolkata



Sources: West Bengal Industrial Development Corporation, Department of Biotechnology, Government of West Bengal

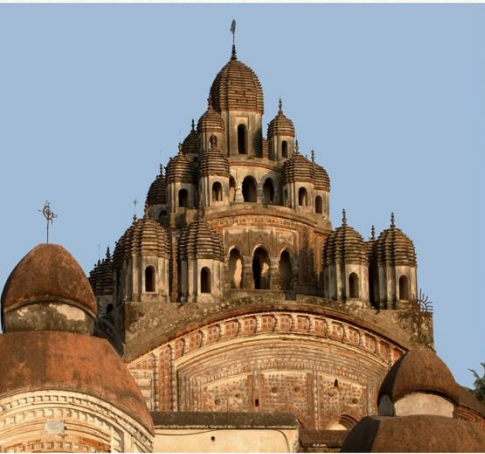
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Key Industries

- The natural resources, policy incentives and infrastructure in the state support investments in major sectors such as iron and steel, biotechnology, coal, leather, jute products, tea, IT, gems and jewellery.
- Climatic conditions suitable for cultivation of tea and jute have made West Bengal a major centre for these products and related industries.
- West Bengal occupies a predominant position in the development of micro and small scale enterprises.
- The state has 2,513,303 working micro, small & medium enterprises (both registration & un-registered) providing employment to around 5.83 million persons.
- The growth rate of index of industrial production of West Bengal stands at 3.7 per cent in 2010-11 over previous year.

Key Industries in West Bengal

- Tea
- Petroleum and Petrochemicals
- Leather
- Iron and Steel
- IT
- Mineral Resources
- Automobile and Auto Components
- Biotechnology
- Fisheries
- Agriculture and Horticulture
- Livestock and Dairy Products
- Chemicals
- Textiles
- Jute Products
- Vegetable Oils
- Electronics
- Engineering Goods

Source: West Bengal Government Website

Key Industries – Tea ... (1/2)

- West Bengal is the second-largest tea growing state in India, after Assam, and accounts for around 23.1 per cent of the total tea produced in India.
- In 2010-11, 115,100 hectares of land was under tea cultivation in the state.
- In 2011-12, total production of tea in the state was 225.6 million kg.
- Tea gardens in the state are located in Darjeeling and Jalpaiguri, the two northern districts of West Bengal.
- Darjeeling tea has a Geographical Indicator (GI).
- In 2010, the state had 307 tea estates.

Some of the Key Players

- Tata Global Beverages
- Goodricke Group Ltd
- Mcleod Russel India Ltd
- Duncans Industries Ltd

Key Industries – Tea ... (2/2)



Tata Global Beverages



- Tata Global Beverages, formerly known as Tata Tea, is the largest brand of tea in India. It acquired the UK-based Tetley Group in 2000.
- The company has six major brands in the Indian market, viz., Tata Tea, Tetley, Kannan Devan, Chakra Gold, Agni and Gemini. It has its headquarters and tea estates in West Bengal.

Goodricke Group Ltd (GGL)



- GGL, a part of Camellia plc. UK, is engaged in the cultivation, manufacture, and sale of tea in India.
- It has 17 gardens, including three gardens in Darjeeling, two in Assam and 12 in Jalpaiguri.
- Its turnover in 2011 stood at US\$ 95.5 million and total crop production of 20.66 million kg. It launched cold tea and has entered the ready-to-drink products market in 2009.

McLeod Russel India Ltd



- McLeod Russel India Ltd produces over 100 million kg of tea every year from tea estates in Assam, West Bengal, Vietnam, Uganda and Rwanda employing 87,000 people.
- The company has its registered office in Kolkata.
- The five tea estates in Jalpaiguri district produce 6.27 million kg of tea, annually.

Duncans Industries Ltd



- Duncans Industries Ltd, headquartered in Kolkata, is a part of the diversified Duncan-Goenka Group, established in 1859.
- The company has 12 tea estates, located in the Doors, Terai and Darjeeling.
- The company markets tea under the brands namely Runglee Rungliot, Double Diamond, Shakthi, Sargam and No1.

Key Industries – Petroleum and Petrochemicals ... (1/3)

- West Bengal accounted for around 3.3 per cent of the country's refinery crude throughput in 2010-11.
- Haldia Petrochemicals Limited is one of India's largest integrated petrochemical complexes.
- Mitsubishi Chemicals and Corporation, Japan's major chemical firm has invested in a Purified Terephthalic Acid (PTA) plant at Haldia at an investment of US\$ 780 million (phase I & II).

Key Players

- Indian Oil Corporation Ltd (IOCL)
- Oil India Ltd (OIL)
- Oil and Natural Gas Corporation Ltd (ONGC)
- Haldia Petrochemicals Ltd (HPL)

Key Industries – Petroleum and Petrochemicals ... (2/3)



Indian Oil Corp Ltd (IOCL)



- IOCL is India's largest company by sales with a turnover of US\$ 84.9 billion in 2011-12. It is the eighteenth largest petroleum company in the world.
- It owns and operates 10 of India's 22 refineries with a combined refining capacity of 65.7 MTPA, (1.30 million barrels per day).
- It has a refinery at Haldia, with an installed capacity of 7.5 MTPA.
- The company is planning augmentation of Paradip-Haldia-Barauni Crude Oil Pipeline with an investment of US\$ 122.2 million.

Oil and Natural Gas Corp Ltd (ONGC)



- ONGC is India's leading oil and gas exploration and production company.
- The company has 240 onshore production installations, 77 drilling rigs and 26,598 km pipeline network.
- ONGC has acquired five onshore blocks, spreading over 16,500 sq km in West Bengal for US\$ 2 billion, as of December 2009.



Key Industries – Petroleum and Petrochemicals ... (3/3)

Oil India Ltd (OIL)



- OIL, established in 1959, is primarily engaged in exploration, development, production and transportation of crude oil and natural gas in India.
- OIL owns 10 crude oil pumping stations and 17 repeater stations spread across Assam, West Bengal and Bihar.
- The company also owns and operates a 654 km petroleum product pipeline, connecting Numaligarh Refinery Limited in Assam to Siliguri in West Bengal.

Haldia Petrochemicals Ltd (HPL)



- HPL is a modern, naphtha-based petrochemical complex located at Haldia, 125 km from Kolkata.
- It is a joint venture project of the Government of West Bengal with the Chatterjee Group, the TATA group and IOCL as major stakeholders.
- It has a total capacity of 700,000 tonnes per annum of ethylene.
- The company has successfully completed project "Supermax" with an investment of over US\$ 269.9 million in the state. The naphtha cracker plant of HPL can produce around 700 Kilo Tons Per Annum (KTPA) of ethylene with this project.

Key Industries – Leather ... (1/2)

- West Bengal is one of the leading exporters of finished leather goods. The state's export from leather industry constitutes about 55.0 per cent of India's total leather goods exports.
- As of 2010, the state had around 529 manufacturing units producing leather and leather goods.
- West Bengal Leather Industrial Development Corporation provides assistance to small & micro scale industries of the state for the development and marketing of leather goods.
- The Government of West Bengal has set up an integrated leather complex on the Eastern fringe of Kolkata, spread over 1,100 acres.

Key Players

- Khadim India Limited
- Bata India Limited
- Singhvi International
- Balmer Lawrie and Company Limited

Key Industries – Leather ... (2/2)



Khadim India Ltd



- The Khadim group has a significant presence in the footwear segment, especially in the East of India.
- It has a manufacturing unit at Kasba Industrial Estate, Kolkata.
- The company has 641 stores in 21 states of India, out of which 263 stores are located in West Bengal.

Bata India Ltd



- Bata India Limited, incorporated in Kolkata, is the largest shoe manufacturer in India.
- The company has 30.0 per cent share of the organised footwear market and its retail footprint spans more than 1,250 stores; it sells over 50 million pairs of footwear every year.
- Bata has a manufacturing unit in Batanagar, West Bengal.

Singhvi International



- Singhvi International, established in 1974, is engaged in the export of leather hand gloves and safety garments world-wide.
- Factory and warehouse units are spread in and around Kolkata. It has its registered office in Kolkata.

Balmer Lawrie and Co Ltd



- Balmer Lawrie is a Government of India enterprise, corporate headquartered at Kolkata.
- The company manufactures leather chemicals.
- It has manufacturing operations at Kolkata, Mumbai, Chennai, Mathura, Silvassa and offices at many locations in India.

Key Industries – Iron and Steel ... (1/2)

- West Bengal has emerged as a favoured destination for the steel industry.
- Its deposits of iron ore have helped attract new projects. The Chota Nagpur plateau bordering West Bengal is the nerve-centre of this industry.
- The Joint Plant Committee (JPC) for steel has been constituted by the Government of India for formulating the guidelines for production, allocation, pricing and distribution of steel materials in the country. Headquartered in Kolkata, it has regional offices in Kolkata, New Delhi, Mumbai and Chennai.
- The state accounts for about 10.0 per cent of country's total steel capacity.

Some of the Key Players

- JSW Steel Ltd
- SAIL
- Shyam Steel
- Super Forgings & Steel Ltd (SFSL)

Key Industries – Iron and Steel ... (2/2)



JSW Steel Ltd (JSL)



- JSW Steel Ltd is among the largest private steel companies in India, with a capacity of 14.3 Million Tonnes Per Annum (MTPA).
- The company is setting up a 10 million MTPA steel plant at Salboni in West Bengal.

Steel Authority of India Ltd (SAIL)



- SAIL is the leading steel maker in India, with a turnover of US\$ 10.50 billion in 2011-12.
- Indian Iron & Steel Company (IISCO), which was a 100 per cent subsidiary of SAIL, has been amalgamated with the parent company.
- The company has an integrated steel plant in Durgapur.

Shyam Steel



- Shyam Steel, established in 1953 in Howrah, is among the leading manufacturer of steel re-bars and structurals.
- It has a plant at Durgapur comprising steel melting furnace, billet casting plant and rolling mill.

Super Forgings & Steel Ltd (SFSL)



- Incorporated in 1968, SFSL is one of the leading manufacturers of carbon and alloy constructional grades of steel.
- The company was initially a trading unit in alloy steels, started in 1960.
- The product line of SFSL includes tools steel, stainless steel (including corrosion resistant steel), carbon alloy and construction steel.
- The products find applications in defence, power generating industries, automobiles and ancillary unit parts apart from railways. A multilocational company, SFSL has three units in West Bengal, two in Howrah and one in Bhadreswar.

Key Industries – Information Technology

... (1/2)

- Over 500 IT and ITeS companies are operating in the state, employing more than 120,000 professionals.
- The state has identified IT as a priority focus sector to be developed into a growth engine for the future.
- West Bengal has 16 IT/ITeS based SEZs with formal approval. A 16.19 hectares SEZ by Tata Consultancy Services has been granted formal approval.
- A number of towns such as Durgapur, Siliguri, Haldia are also emerging as suitable IT destinations with appropriate infrastructure in the form of Software Technology Parks (STP).
- The total IT Exports from STPK (Software Technology Park) and Non-STPK Parks in West Bengal touched US\$ 1.65 billion in 2011-12.

Some of the Key Players

- Genpact
- Cognizant Technology Solutions
- HCL
- Tata Consultancy Services

Key Industries – Information Technology

... (2/2)



Genpact



- Genpact is a global remote processing operations company that services clients across the world with its IT-enabled services.
- It has an 80,000 sq ft facility in Kolkata and inaugurated second operations centre in the city. This 0.2 million sq ft SEZ facility has the capacity to accommodate more than 3,000 employees when fully operational.

Cognizant Technology Solutions (CTS)



- CTS is a global e-business and application development company.
- CTS, Kolkata services several large clients from the banking, hospitality (restaurant), healthcare, financial and information-driven sectors of the global market.
- The company has started work on the second phase of expansion at its Bantala campus, near Kolkata, with an estimated cost of US\$ 41.7 million.

HCL



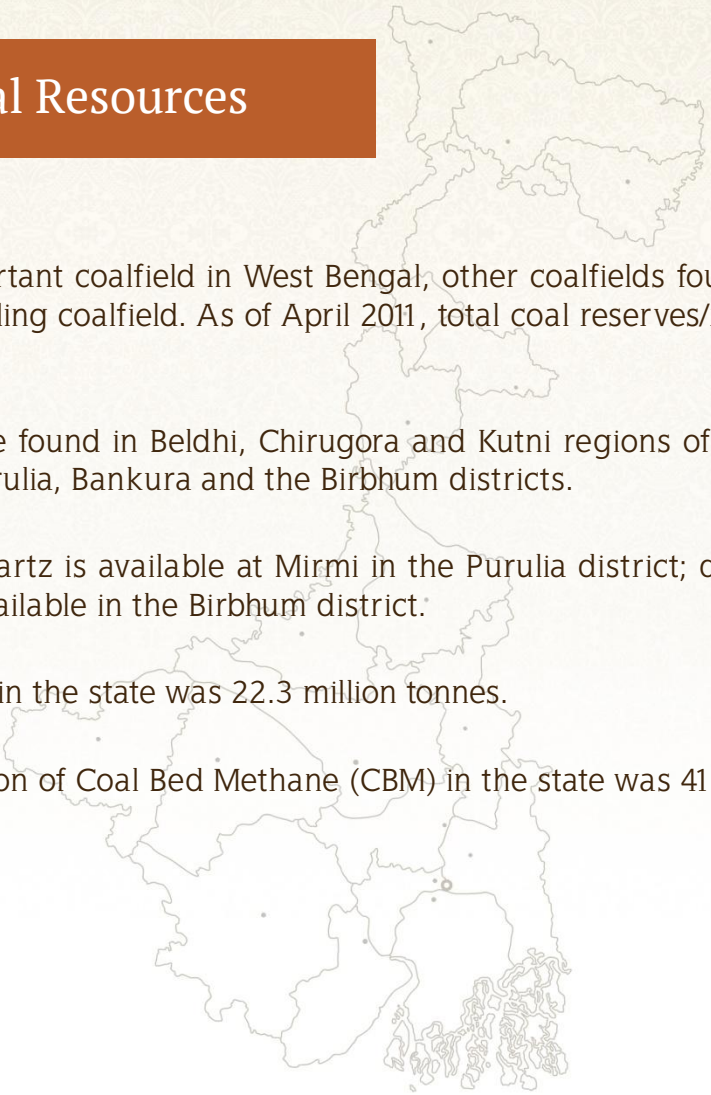
- Incorporated in 1976, HCL is a leading global technology and IT enterprise with annual revenues of US\$ 6.2 billion. The company's operations span across 31 countries. It has delivery facilities in the US, the UK, Finland, Poland, Puerto Rico, Brazil, China, Malaysia, Singapore and India.
- In India, the company has offices in 170 cities and 505 service centers reaching 4,000 towns. In West Bengal, HCL has two offices in Salt Lake City, Kolkata and one in New Town Rajarhat.

Tata Consultancy Services (TCS)



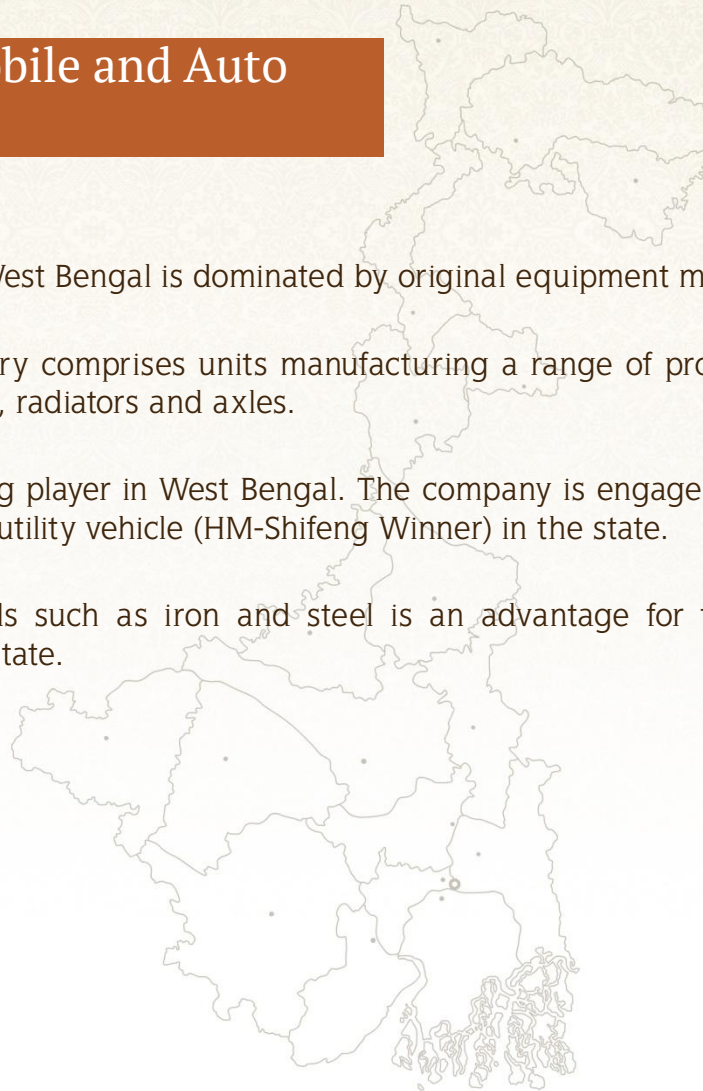
- A company of the TATA group, TCS is a well recognised global service provider for a wide range of IT solutions, consulting, BPO, engineering services and IT infrastructure.
- The company has offices across the world at more than 42 countries, including around 80 locations in India. It has nine offices in Kolkata.

Key Industries – Mineral Resources

- 
- Raniganj coalfield is an important coalfield in West Bengal, other coalfields found in the state are Barjora coalfield, Birbhum coalfield and Darjeeling coalfield. As of April 2011, total coal reserves/resources were estimated to 29,954.9 million tonnes in the state.
 - Rock phosphates deposits are found in Beldhi, Chirugora and Kutni regions of Purulia districts. Deposits of granite and kaolinite are found in Purulia, Bankura and the Birbhum districts.
 - Good quality pegmetallic-quartz is available at Mirmi in the Purulia district; deposits of basalt-trap rocks used for preparing road metals are available in the Birbhum district.
 - In 2010, total coal production in the state was 22.3 million tonnes.
 - In 2010-11, the gross production of Coal Bed Methane (CBM) in the state was 41 million cubic metre.

Key Industries – Automobile and Auto Components

- The automobile industry in West Bengal is dominated by original equipment manufacturers (OEM).
- The auto components industry comprises units manufacturing a range of products from simple nuts and bolts to complex items such as shafts, radiators and axles.
- Hindustan Motors is a leading player in West Bengal. The company is engaged in the manufacturing of passenger car (Ambassador) and multi-utility vehicle (HM-Shifeng Winner) in the state.
- Easy access to raw materials such as iron and steel is an advantage for the growth of automotive and auto components industry in the state.

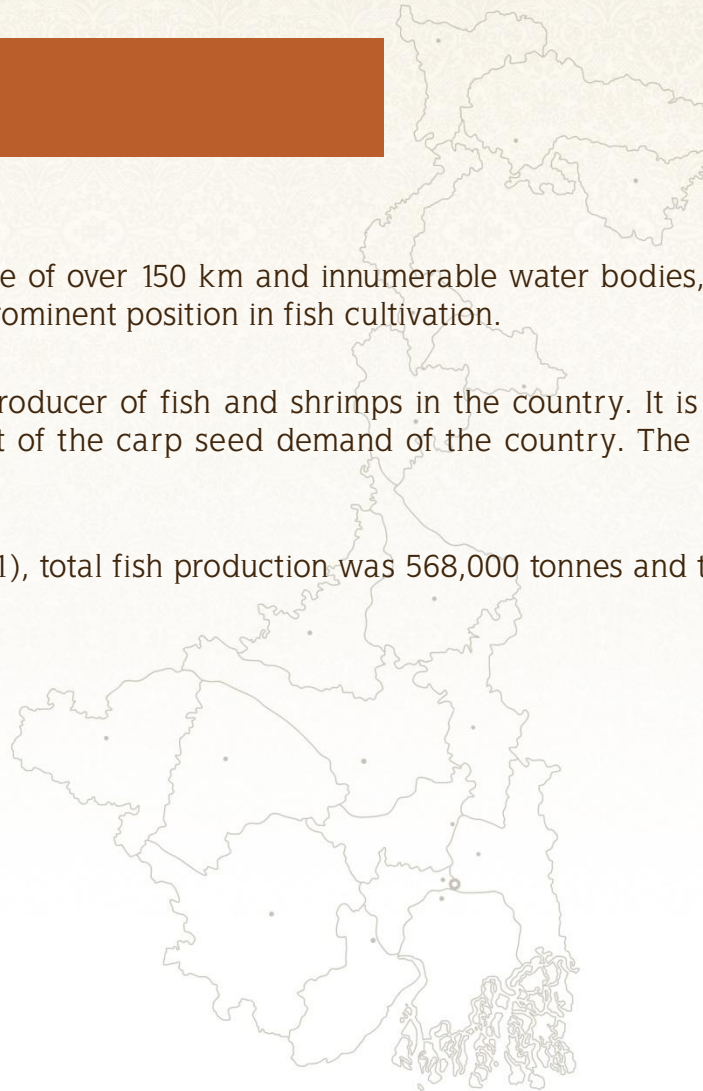


Key Industries – Biotechnology

- West Bengal has many attributes that favour the development of biotechnology industry. It has rich natural resources based on a diversity of flora and fauna.
- A wide variety of commercial crops are cultivated, which can be improved by biotechnology interventions. Examples of such interventions are application of bio-fertilisers for soil fertility, bio-pesticides for environment friendly integrated pest management, genetic modification to produce golden rice, tissue culture for horticulture, floriculture and medicinal plants.
- Research institutes such as Bose Institute, Indian Institute of Chemical Biology, Indian Association for the Cultivation of Science, National Institute of Cholera and Enteric Diseases, Jadavpur University, All India Institute of Hygiene and Public Health, Calcutta School of Tropical Medicine and Indian Institute of Technology, Kharagpur are engaged in high quality research in various areas of biotechnology.
- There are three biotechnology parks in the state; Jagadish Chandra Bose Biotechnology Park (Madhyamgram), EKTA Incubation Centre (Kolkata) and Kolkata Biotech Park (Kolkata).

Key Industries – Fishery

- The state has a long coastline of over 150 km and innumerable water bodies, which generate a huge potential for inland fishing and give it a prominent position in fish cultivation.
- West Bengal is the largest producer of fish and shrimps in the country. It is also the largest supplier of fish and supplies nearly 80.0 per cent of the carp seed demand of the country. The state produces significant amount of fresh water fish.
- In 2011-12 (till September 2011), total fish production was 568,000 tonnes and total fishseeds production was 13,746 million in the state.



Key Industries – Agriculture and Horticulture

- West Bengal comprises of six agro-climatic zones and offers a diverse variety of environment for agriculture and horticulture produce. The state had produced 2.95 million tonnes of fruits and around 26.72 million tonnes of vegetables in 2010-11.
- Floriculture is an emerging industry in West Bengal with high prospects. In 2010-11, total production of flowers (loose) in the state was 59,200 tonnes.
- In 2010-11, the state had gross cropped area of 8.83 million hectares.
- There is good potential for exporting flowers like gladiolus, gerbera, tuberose and rose to countries in Holland, Middle-East, the UK and Japan.
- Indoor plants and foliage such as asparagus, palms, cycads and ferns are also grown in the state.

Key Industries – Livestock and Dairy Products

- The state has a favourable climate for poultry breeding and is considered as one of the most attractive poultry markets in India. It has enormous export potential in poultry and duck meat.
- West Bengal holds good position in indigenous cattle population in the country.
- The state is one of the leading producers of meat. The total production of meat in 2010-11 was 577,300 tonnes.
- In 2010-11, total number of eggs (Hen and Duck) produced in the state was around four billion.
- In 2010-11, total milk production in the state was around 4.47 million tonnes.



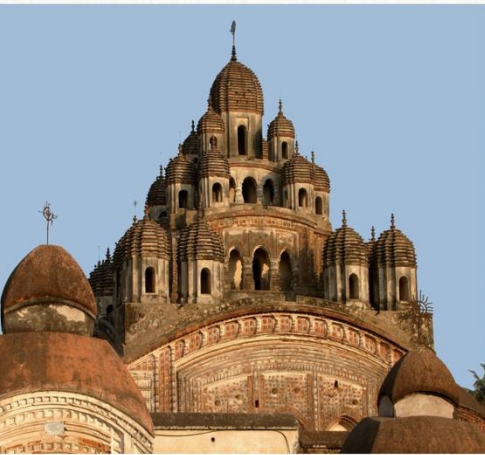
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Single-Window Approval Mechanism

- 'Shilpa Bandhu' or the State Investment Facilitation Centre (SIFC) is the state-level nodal agency for single-window clearances in West Bengal. The purpose of 'Shilpa Bandhu' is to provide guidance and information to investors about policies and programmes of the state. The agency is monitored by an empowered committee.
- SIFC offers assistance in the following areas:
 - Approvals from the Secretariat for Industrial Assistance and Foreign Investment Promotional Board.
 - Registration by Directorate of Industries.
 - Clearance from the Pollution Control Board.
 - All clearances related to power.
 - Identification, allotment, mutation/conversion of land and other infrastructural facilities.
 - Guidance to entrepreneurs on investment prospects in over 200 ready projects developed by WBIDC.
- District Industry Centre (DIC) is the district-level committee for single-window clearance that provides sanctions and clearances for setting up small scale industrial units in the state.
- The committee is convened by the General Manager, District Industries Centre and includes the Environmental Engineer of the West Bengal Pollution Control Board, Superintendent Engineer/Executive Engineer of West Bengal State Electricity Board, District Officer of Housing and Urban Development Authority and the Assistant Director of Factories.



Key Investment Promotion Offices

Agency	Description
West Bengal Industrial Development Corporation (WBIDC)	<ul style="list-style-type: none"> The WBIDC focuses on financing of medium and large scale industries. It provides assistance service and facilitates investment proposal through “Shilpa Bandhu”. It promotes joint sector and assisted sector units in important industry segments.
West Bengal Industrial Infrastructure Development Corporation (WBIIDC)	<ul style="list-style-type: none"> The WBIIDC is responsible for balanced and well-planned industrial development in the state.
West Bengal Small Industries Development Corporation Ltd (WBSIDC)	<ul style="list-style-type: none"> Set up in 1961, WBSIDC is the promotional agency for growth and development of industries and commercial activities in the small and medium sector in the state. WBSIDC has developed 37 industrial and commercial estates all over the state.
West Bengal Electronics Industry Development Corporation Limited (WEBEL)	<ul style="list-style-type: none"> WEBEL is responsible for the development of electronics and IT/ITeS industries in the state. It assists investors in obtaining all necessary approvals for new projects and facilitates setting up of IT and electronics industry.
West Bengal Finance Corporation (WBFC)	<ul style="list-style-type: none"> WBFC is a state level financial institution to help the small, medium and tiny sector enterprises to implement their new/ expansion/ modernisation or technological up gradation schemes.



Contact List

Agency	Contact Information
West Bengal Industrial Development Corporation (WBIDC)	"Protiti", 23, Abanindranath Tagore Sarani, (Camac Street) Kolkata - 700017, Phone: 91 33 2255 3700 - 705 Fax: 91-33-2255 3737 Email: wbidc@wbidc.com Website: http://www.wbidc.com/
West Bengal Industrial Infrastructure Development Corporation (WBIIDC)	"Protiti", 23, Abanindranath Tagore Sarani, (Camac Street) Kolkata – 700017 Phone: 91-33-2255 3700-705 Email: tridibB@wbiidc.org
West Bengal Small Industries Development Corporation Limited (WBSIDC)	Shilpa Bhawan, 31 Black Burn Lane Kolkata-700 012, Phone: 91-33-2237 3895
West Bengal Electronics Industry Development Corporation Limited (WEBEL)	Webel Bhavan, Block-EP & GP, Sector-V, Salt Lake Kolkata-700 091 Phone: 91- 33- 2357 1704/06 Fax : 91-33-2357 1708 /2357 1739 Email: contact@webel-india.com
West Bengal Finance Corporation (WBFC)	12A, Netaji Subhas Road, 3rd and 4th Floor, Kolkata-700 001 Phone: 91-33-2230 0055/3259/4954/3083 Fax: 91-33-2230 1250 E-mail: administraton@wbfconline.org Website: www.wbfconline.org



Key Approvals Required

List of Approvals and Clearances Required	Department
Incorporation of Company	Registrar of Companies
Registration, Industrial Entrepreneurs Memorandum (IEM), Industrial Licenses	Department of Industries, West Bengal State Government
Permission for Land Use	
Allotment of Land	West Bengal Industrial Development Corporation (WBIDC), West Bengal Industrial Infrastructure Development Corporation, West Bengal Small Scale Industries Development Corporation
Site Environmental Approval	West Bengal Pollution Control Board (WBPCB)
No-Objection Certificate and Consent under Water and Pollution Control Act	
Registration under States Sales Tax Act and Central and State Excise Act	Excise Department, Government of West Bengal
Commercial Taxes	
Sanction of Power	West Bengal State Electricity Distribution Company Limited (WBSEDCL), Kolkata Electric Supply Corporation, Damodar Valley Corporation, Durgapur Projects Limited, Dishegarh Power Supply Company Limited, according to area demarcated.
Power Feasibility	
Power Connection	
Approval for Construction Activity and Building Plan	Public Works Department, Government of West Bengal, State Water Investigation Department, Public Health Engineering Department, Government of West Bengal
Water and Sewerage Clearance	
Water Connection	

Cost of Doing Business in West Bengal

Cost Parameter	Cost Estimate	Source
Cost of Land (per sq ft)	US\$ 4 to US\$ 100	Industry Sources
Hotel Room Cost (per night)	US\$ 60 to US\$ 152	Indian Hotel Survey
Office Space (rent per sq ft per month)	US\$ 1.0 to US\$ 3.0	Industry Sources
Residential Space (rent per sq ft per month)	US\$ 0.3 to US\$ 1.2	Industry Sources
Labour Cost (minimum wages per day)	US\$ 2.4 to US\$ 4.3	Ministry of Labour and Employment, Government of India

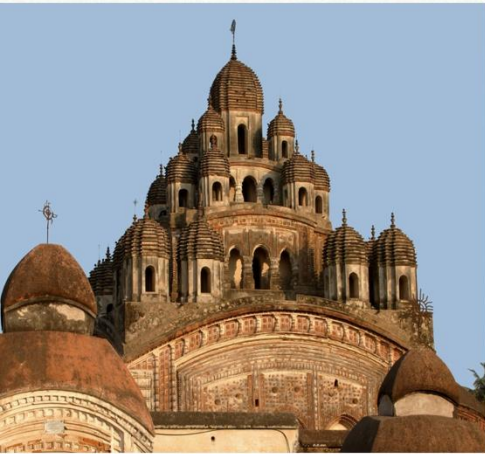
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State Acts & Policies ... (1/2)

West Bengal Policy on Information & Communication Technology 2012

Objective

- To become one of the leading states in India in the IT & ITeS and Electronic System Design and Manufacturing (ESDM) sectors and to enable West Bengal to transform into a knowledge-driven welfare society with extensive use of IT & ITeS in governance and in the daily lives of the people of the state.

[Read more](#)

West Bengal ICT Incentive Scheme 2012

Objective

- To promote IT/ITeS projects of large, medium, small, and micro units to be set up in the state.

[Read more](#)

West Bengal Biotechnology Policy 2012 (Draft)

Objectives

- To bring in related industries and services of this growth industry, geared to revenue streams and payback, and appropriate business model.
- To map, conserve and sustainably use bio-resources, particularly those which are unique to the state.

[Read more](#)

State Acts & Policies ... (2/2)

West Bengal Food Processing Industry Policy 2011

Objectives

- To augment export of both primary agricultural-horticultural produce and processed food products.
- To produce and supply safe, hygienically processed balanced nutritious food to the domestic and export market.

[Read more](#)

West Bengal Tourism Policy 2008

Objectives

- To improve the market share of West Bengal in the inbound international tourism segment and also to have a dominant share in the domestic tourism market.
- To promote responsible and sustainable tourism through the integrated development of the infrastructure and not sporadic, stand alone and fragmented development.

[Read more](#)

Special Economic Zone Act (SEZ) 2003

Objective

- To facilitate the development, operation, maintenance, management, administration and regulation of Special Economic Zone in the state.

[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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