

IRON AND STEEL INDUSTRY

MANUFACTURING CENTRES

West Bengal

Bengal Iron Work company

- Steel was first manufactured by modern methods at Kulti (near Asansol in West Bengal).

Indian Iron and Steel Company (IISCO)

Bengal Iron Work Company who taken over by IISCO. It was set up at Burnpur in 1919 and comprises three units which are located at

- Hirapur-Hirapur produces pig iron.
- Kulti - making steel.
- Burnpur - steel rolling mill.

This company was nationalised in 1972.

Durgapur Steel Plant

It was set up in Burdwan district with the help of U.K.

- Influenced by the availability or ready market and proximity to Hooghly engineering works.

Jharkhand

Tata Iron and Steel Company (TISCO)

- Located at the confluence of Subanarekha and Kharkai River at Sakchi (now Jamshedpur).
- Oldest and the largest iron and steel centre of India.

Bokaro Steel Plant:

- Located near the confluence of Damodar and Bokaro river with Soviet Collaboration.

Orissa

Rourkela Stee Plant

- Established in Sundergarh district with the help of West Germany.
- It is the only Plant in India where steel is produced by L.D. conversion process.

Daittari Steel Plant

- Located about 120 km away from the sea coast.
- It is shore based plant and is served by the Paradip port.

Gopalpur Steel Works

- Located about 100 km southeast of Bhubaneswar, a unit TISCO.

Chhattisgarh

Bhilai

- Discovery of coking coal in Korba encouraged the government to set up steel plant at Bhilai with the help of Russia.

Karnataka

Visveswaraya Iron and Steel Limited (VISL)

- Located at Bhadravati in Shimoga district.
- Only integrated Iron and steel plant located outside the iron and cola regions of India.

Vijay Nagar Steel Plant

- Located at Tornagal near Hospet area of Bellary district., specialises in making mild steel.

Andhra Pradesh

Vishakhapatnam-Vizag Steel Plant

- First shore based steel plant, which is part of the govt.'s policy of industrial decentralisation.

Kothagudem

- Steel plant was set up with the assistance of UNDP, which produces sponge iron.

Tamil Nadu

Salem Steel Plant

- Produces world class stainless steel and even produces export quality steel.



ENGINEERING INDUSTRIES

Rail Equipments

Locomotives

- Burdawan district (West Bengal) - The Chittaranjan Locomotive Works is situated.
- Varanasi (U.P.): The Diesel Locomotives Works is situated.
- Patiala (Punjab): Diesel Component Works has been set up for manufacturing and repairs of components of diesel locomotives and sub assemblies.
- Bangalore (Karnataka): A wheel and axle plant was set up to cut down the imports.
- Jamshedpur (Jharkhand) Tata Engineering and Locomotive Co. Ltd. (TELCO) is situated.

Coaches

- Perambur (Tamil Nadu): Integral Coach factory, which produces all types of coaches, is located.
- Kapurthala (Punjab): Rail coach factory.
- Bhilai (Chhattisgarh): Rails and sleeper bars are manufactured.
- Durgapur (West Bengal): Wheels, tyres, and axles are manufactured.
- Some others rail coaches and wagons manufacturing private companies are located at Calcutta, Bangalore.

Air Craft Industry

Bangalore (Karnataka) : The first aircraft industry was set up in 1940.

Different parts of aircrafts are manufactured at different places due to security reasons.

STATE	CITY	MANUFACTURERS
Uttar Pradesh	Lucknow	Frames.
	Kanpur	Transports air frames.
Orissa	Koraput	Engines.
Andhra Pradesh	Hyderabad	Electronic equipment.
Maharashtra	Nasik	Air frame.
Karnataka	Bangalore	Main centre of Hindustan Aeronautics Limited (HAL).

SHIP BUILDING INDUSTRY

MAIN CENTRES	PUBLIC SECTOR
Kolkata (West Bengal)	The Garden Reach workshop.
Vishakhapatnam (Andhra Pradesh)	Hindustan Shipyard Ltd.
Cochin (Kerala)	Cochin Shipyard Ltd.
Mumbai (Maharashtra)	The Mazgaon Dock.
Goa	Goa shipyard.

ELECTRONIC MACHINERY AND EQUIPMENT MAKING INDUSTRY

This industry is divided into

- (i) Heavy Electrical Equipmet Industry and
- (ii) Light Electrical Goods Industry.

Bharat Heavy Electrical Ltd. (BHEL) is an important milestone in the development of heavy electrical equipment industry.

MANUFACTURING CENTRES

Uttranchal

- Haridwar

Uttar Pradesh

- Jagdishpur.

Madhya Pradesh

- Bhopal.

Andhra Pradesh

- Hyderabad

Tamil Nadu

- Ranipet, Tiruchirapalli.

Karnataka

- Bangalore.

Other Industries are located at

- Kolkata (West Bengal).
- Mumbai, Pune (Maharashtra).
- Chennai, Coimbatore (Tamil Nadu).
- Bangalore (Karnataka).
- Sonipat (Haryana).
- Patiala (Punjab).

MACHINE TOOLS

BANGALORE (Karnataka); Two units of the Hindustan Machine Tools (H.M.T.) are located, which are the largest manufacturers of machine tools.

Other units of HMT are located at

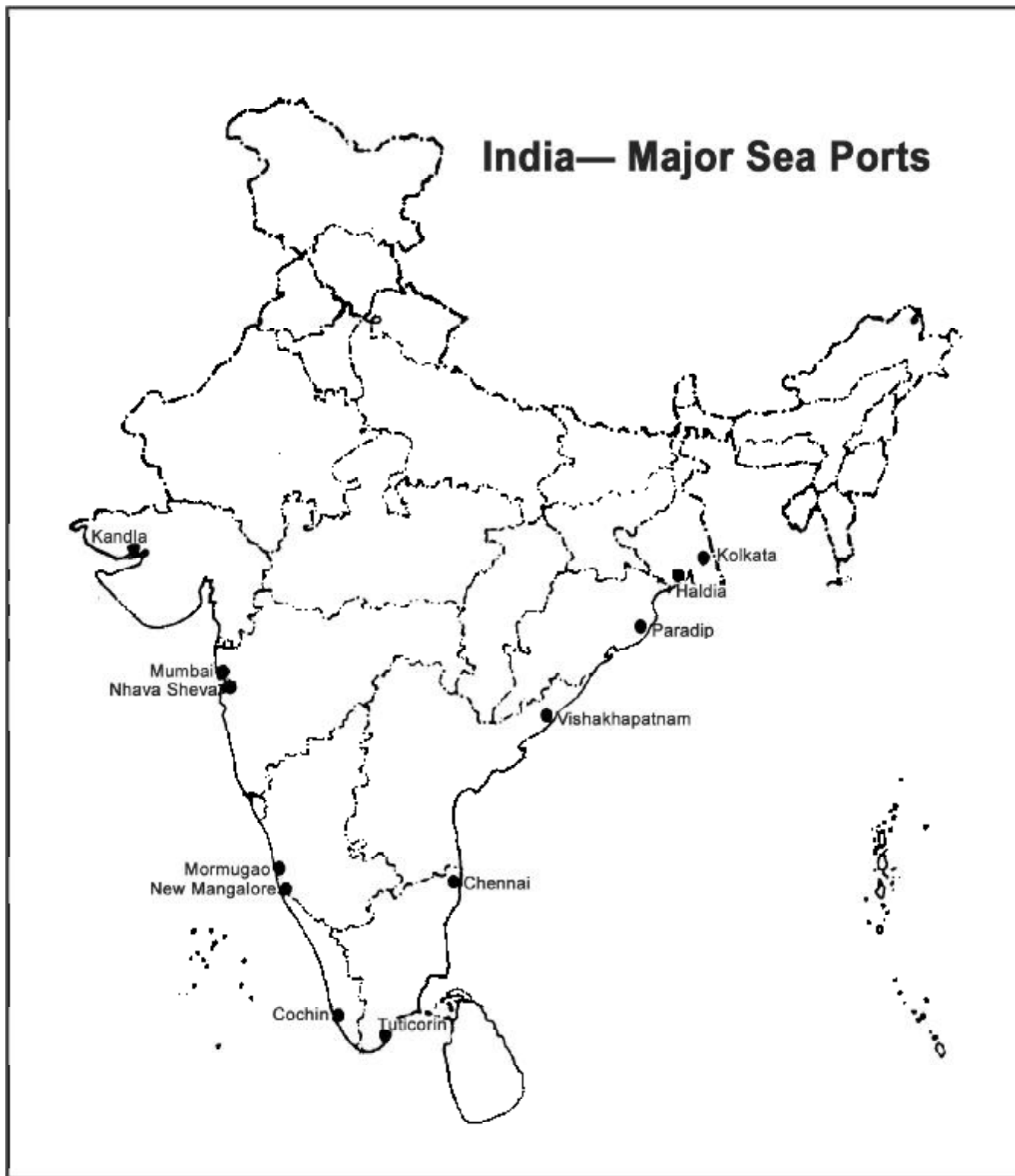
- Pinjore (Haryana)
- Kalamassery (Kerala).
- Hyderabad (Andhra Pradesh).
- Ajmer (Rajasthan)
- Srinagar (Jammu and Kashmir)

Thermal Power Projects

LOCATION	NAME OF PROJECTS
Jammu and Kashmir	Kalakote.
Punjab	Bhatinda, Roopnagar.
Haryana	Faridabad, Panipat, Yamunanagar.
Rajasthan	Kota, Palana, Banswara, Sawai Madhopur Anta (Gas based project).
Gujarat	Dhuvaran, Gandhinagar, Kawas (Gas based prject).
Uttar Pradesh	Obra (Mirzapur), Rihand, Hardwaganj (Aligarh), Dadri Auraiya (gas based project).
Bihar	Barauni.
Jharkhand	Bokaro, Tenughat, etc.
Madhya Pradesh	Korba (Bilaspur), Satpura etc.
Orissa	Talcher.
Maharashtra (largest producer of thermal power in India).	Trombay, Uran Gas Turbine, Bhusawal, etc.
Andhra Pradesh	Ramagundam, Kothagundam, Vijaywada, Nellore.
Tamil Nadu	Neyveli Mettur, Tuticorin Ennore (Chennai), etc.

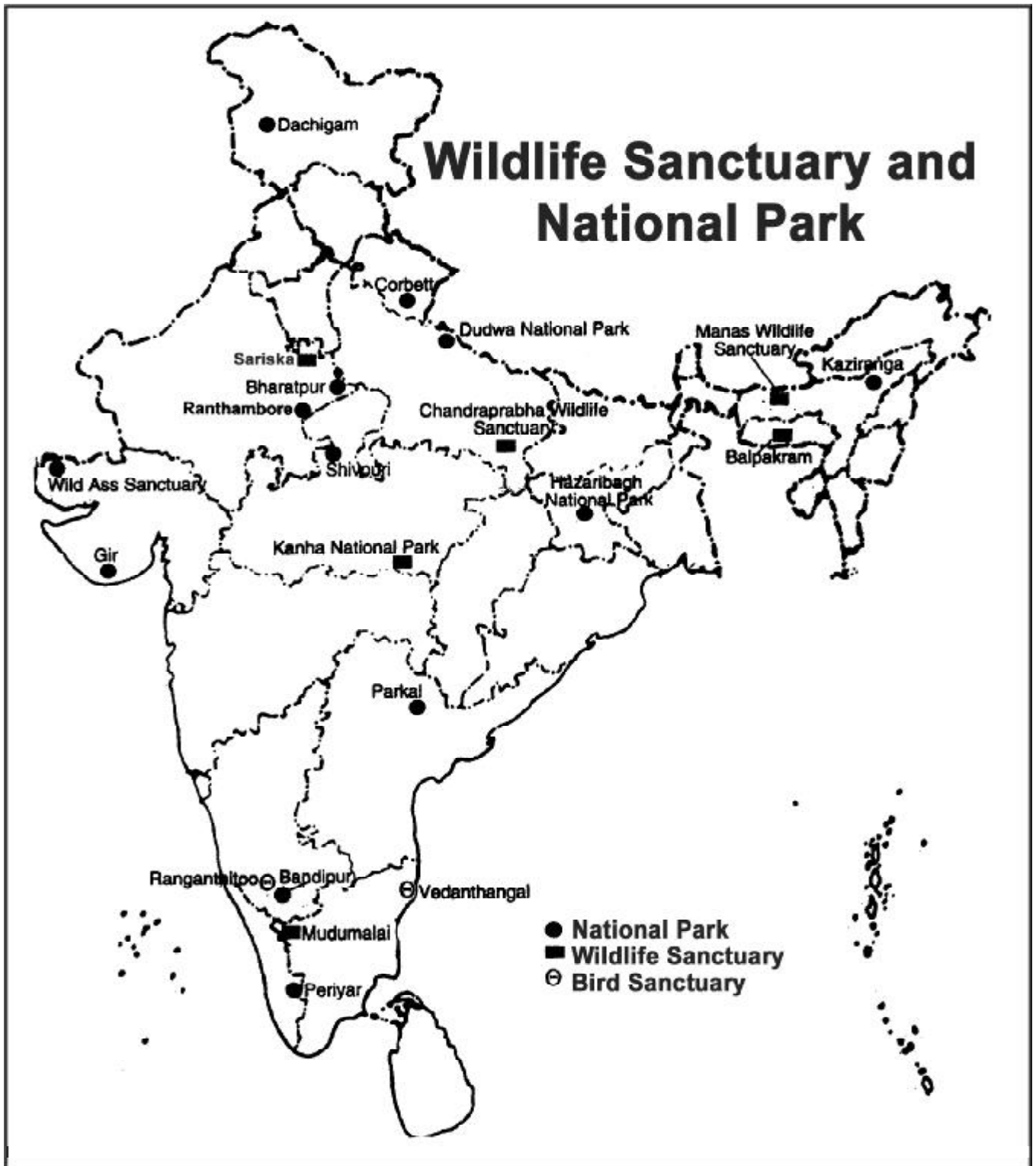
Atomic Power Projects

LOCATION	INFORMATION
Tarapur (Maharashtra)	<ul style="list-style-type: none"> • The Tarapur Atomic Powe Station (TAPS). • First nuclear station of India was started in 1989. • Provides electricity to Gujarat and Maharashtra.
Rawat Bhata (Rajasthan).	<ul style="list-style-type: none"> • The Rajasthan Atomic Power Station (RAPS). • Uses natural uranium as fuel, supplies electricity to rajasthan.
Kalpakkam near Chennai (Tamil Nadu).	<ul style="list-style-type: none"> • The Madras Atomic Power Station (MAPS). • Electricity is provided to Chennai.
Narora in Bulandsahar district (Uttar Pradesh).	<ul style="list-style-type: none"> • The Narora Atomic Power Station (NAPS) provides electricity to Uttar Pradesh and Delhi.
Kakrapara (Gujarat).	<ul style="list-style-type: none"> • The Kakrapara Atomic Power Station (KAPS).
Kaiga (Karnataka)	<ul style="list-style-type: none"> • The Kaiga Atomic Power Station.



Major Sea Ports of India

NAME	INFOMATION
MAJOR PORTS ON THE EAST COAST	
Kolkata (West Bengal).	<ul style="list-style-type: none"> • A riverine port located on the bank of the Hooghly River. • Handles diversified commodities, coming from S.E. Asian countries. Australia and New Zealand.
Haldia (West Bengal)	<ul style="list-style-type: none"> • A new port which has been developed on the River Hooghly to relieve Calcutta port. • Site of oil refinery.
Paradip (Orissa)	<ul style="list-style-type: none"> • Located on the coast of Orissa, handles iron ore and coal.
Vishakhapatnam (Andhra Pradesh)	<ul style="list-style-type: none"> • India's deepest landlocked port handling crude oil and petroleum products.
Chennai (Tamil Nadu)	<ul style="list-style-type: none"> • Handles petroleum products, crude oil, fertilizers, iron ore and dry cargo.
Tuticorin (Tamil Nadu)	<ul style="list-style-type: none"> • Handles mainly coal, salt, edible oil dry cargo and petroleum products.
MAJOR PORTS ON THE WEST COAST	
Kandla (Gujarat)	<ul style="list-style-type: none"> • Tidal port and a free trade zone located at the eastern end of Rann of Kachchh. • Handles crude oil, petroleum products, edible oil, food grains, salt, cotton, etc.
Mumbai (Maharashtra)	<ul style="list-style-type: none"> • Natural harbour on the west coast and is also the biggest port of India. • Handles maximum traffic (over one fifth of total traffic of ports) which includes mineral oil and dry cargo.
Jawaharlal Nehru (Nhava Sheva) near Mumbai	<ul style="list-style-type: none"> • Equipped with modern facilities having mechanised countainer bertsh for handling dry carge and service berths.
Mormugao (Goa)	<ul style="list-style-type: none"> • Occupies fifth position in terms of total traffic handled.
New Mangalore (Karnataka)	<ul style="list-style-type: none"> • Handles the export of iron ore of Kudremukh and imports of petroleum products, fertilizers, edible oils, etc.
Cochin (Kerala)	<ul style="list-style-type: none"> • Natural harbour. • Handles the export of tea, coffee and spices and imports of petroleum oil and fertilizers.



Wild Life and Sancturries of India

STATE	NATIONAL PARKS/ WILD LIFE	IMPORTANT SPECIES
Jammu and Kashmir	Dachigam National Park (Srinagar).	Famous for its Kashmir stag of hangul (endangered) species), and leopard, black bear, musk deer, etc. are also available.
Rajasthan	Ranthambhor National Park (Sawai Madhopur).	Tiger, Panther, hyaena, jungle cat, nilgai, wild boar, green pigeon etc.
	Keoladeo Ghana National Park (Bharatpur).	Siberian crane, cormorant, storks, spoon bill black buck, wild boar etc.
Gujarat	Gir National Park (Junagarh).	Famous for its Asiatic Lion (an endangered species), and also famous for crocodiles, panthers and nilgais.
	Wild Ass Sanctuary (Rann of Kachchh).	Famous for its wild ass but for wolves, chinkar and nilgai are also found.
Uttranchal	Corbett National Park (Nainital).	Home of tigers and chittal, elephant, sambharts, nilgais, sloth bear as well.
Uttar Pradesh	Chandraprabha Wildlife Sanctuary (Varanasi).	Home of Asiatic lion and sambhar chitta, tiger, panthar, and sloth bear.
	Dudwa National Park (Lakhimpur kheri).	Tiger, nilgai, sambhar and panthar.
Jharkhand	Hazaribagh National Park (Hazaribagh).	Variety of animals and birds such as tiger, leopard, sambhar chittal.
West Bengal	Sundarbans Tiger (S.24-Parganas) Sanctuary.	Tiger, wild boar, crocodile, deer.
	Jaldapara Sanctuary (Jalpaiguri).	Home of famous Indian rhinoceros.
Arunachal Pradesh	Namdapha National Park (Tirap district).	Home of elephants and tigers.
Assam	Kaziranga National Park (Jorhat).	Home of disapperaing one horned rhinoceros, and wild buffaloes, tigers sambhars as well.
	Manas Wild Life Sanctuary (Barpeta).	Famous for wild buffaloes, tigers and elephants.
Meghalaya	Balpakram Wildlife Sanctuary (Garo Hills).	Tigers, elephants and bisons.
Madhya Pradesh	Kanha National Park (Mandla & Balaghat)	Panther, tiger, nilgai, antelope and barlang deer.
	Shivpuri National Park (Shivpuri).	Home of different species of birds and animals.
Andhra Pradesh	Madumalia Wildlife Sanctuary (Nilgiri).	Famous for elephants, deer and pigs.
	Vedanthangal Bird Sanctuary.	
Kerala	Periyar Sanctuary (Idukki).	Home of tigers, panthers, elephants. Samhars, gaurs and the wild boar.
Karnataka	Bandipur National Park (Mysore). Ranganthitoo Bird Sanctuary (Comprising some island in River Cauvery).	Elephant, tiger, bear, sambhar, panther. Well known for its different species of birds.