

8. INDUSTRIES



Let's recall.



Figure 8.1

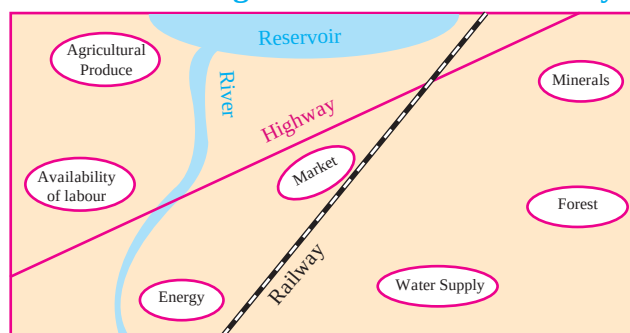
In figure 8.1 the sequence of two industrial processes has been given. Arrange the pictures in proper sequence and write the sequentian number in the box given below.

- Name the two industries
- Name the raw material and the finished product of both these industries.
- How is the raw material converted into the finished product?
- Why is it necessary to convert the raw material into finished product?

Geographical explanation

The process of converting the available raw material into finished products is done in the factories. The finished product is durable, more useful and has an added value. Industries or manufacturing units provide secondary occupation. Due to the availability of resoures, development of science and technology and other favourable conditions, there is the development of industries and a boost to industrialization. Industries help in speeding up the economic development of humans and it also helps in achieving the economic development of a country.

Factors affecting the location of an industry :



Taking into account the above factors, note in different colours the favourable factors required for the factories and given below and the following.

(1) Iron and Steel, (2) Textiles, (3) Sugar.

- For each industry prepare a list of the necessary factors.
- For each industry give an explanation for the location suggested by you.
- In a similar manner for which other industries can you decide a suitable location?

Geographical explanation

In any given area the development of industries is dependant on several factors such as the availability of raw material, water, labour,

transport, capital, market etc. As per the availability of these factors, specific industries develop. Because of the unequal distribution of these factors, industrial development does not take place at the same pace at all places. Some regions are suitable for the development of industries while in other regions, only particular industries develop. Dense forests and desert areas are not conducive to industrial development.



Give it a try.

Study the factors given below and state which industries could develop in these regions.

- Excellent transport facilities, skilled labour and uninterrupted supply of electricity.
- Limestone deposits, cheap labour, uninterrupted supply of water and electricity, increasing urbanisation.
- Fruit orchards, labour, excellent transportation facilities, unlimited water supply, uninterrupted electricity and ready market.



Can you tell ?

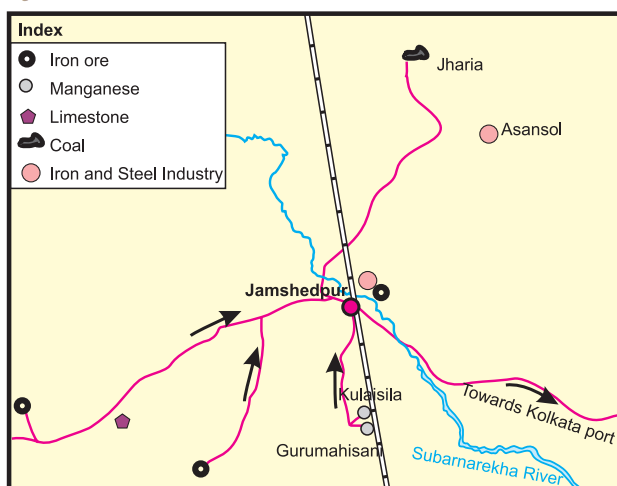


Figure 8.2 : Localisation of Iron and steel industry

Study figure 8.2 and answer the following questions.

- Name the industry at Jamshedpur?
- Which raw material is required for this industry?
- From which areas is this raw material obtained?
- Why is coal used in this industry?
- State with reasons if it would be feasible to set up an iron and steel industry in your district?

Geographical explanation

While looking for answers to the above questions you must have realised that for the **localisation** of the iron and steel industry, the most important factors are the availability of raw material and energy, both of which are available around Jamshedpur. The raw material is heavy and bulky and it is uneconomical to transport it to a factory far away. Hence it is favourable to establish this industry in the area where the raw material is available. This is the reason for the establishment of the iron and steel industry at Jamshedpur.

Classification of industries as per their nature :

Types of Industries

Small industry	Medium industry	Heavy industry
Making of earthen pots, bakery products, etc.	Fruit processing industries, Jaggery making, etc.	Cement, Sugar, Iron and steel, etc.



Use your brain power !

Which industries could be profitably set up in your surrounding area/locality?



Try this.

Obtain information about any one industry in your locality with the help of the following questions.

- Name of the industry -
- Name of the owner -
- How many people work here?
- What is the raw material used?
- What are the steps taken to reduce the pollution level in the vicinity of the factory?
- Through your industry how are you contributing to society?

Geographical explanation

All the three pictures above are related to the concept of industries, but the nature of their work is different. In these industries raw



Use your brain power!

Identify the industries shown in the pictures state suitable locations for these industries.



material, labour force, capital, land, etc. are all essential factors. As per the nature of the work, industries can be classified.

Very often the finished product from one industry is used as a raw material in another industry e.g. sugar produced in the sugar factories is used as a sweetener, a raw material in the manufacture of products such as biscuits, jams and jellies. Similarly iron rods are used as raw



Think about it.

Examine all the three picture shown below and answers the following questions.



- Name the industry shown in picture A
- What is the difference between the industries shown in pictures A and B?
- What is distinctive about the industry in picture C?
- Identify the industry shown in the picture above.
- Name some more similar industries.



Give it a try.

Complete the list with reference to industries

Industry	Type	Raw Material
Manufacture of iron rods		
Manufacture of candles		
Furniture manufacture		
Paper Manufacture		
Manufacture of Medicines		
Sugar Manufacture		
Jaggery Manufacture		
Agarbatti Manufacture		
Manufacture of cotton clothes		
Manufacture of Railway Engines		
Papad Making		

materials in the engineering industries, in the manufacture of steel furniture etc.

Agro Based Industries :

India is a predominantly agrarian country. In India a variety of agricultural products is available. Different types of agro-based industries have come up. In addition to these, industries processing agricultural products have also developed. These include the dairy industry, fruit processing, food processing, jaggery making etc. Industries dependent on agricultural products have been established everywhere. There has also been development of heavy industries like textiles and sugar.

Industrial Development :

The establishment of industries and industrial development have an important role in the economic development of a country. Industrial development is essential for improving the standard of living and increasing the per capita income of the citizens. The citizens of a country get employment opportunities and their life style improves. The per capita income of the country goes up and there is an increase in the export of finished products. This results in an increase in the foreign exchange reserves. For all these reasons it is necessary to give a fillip to industrialization in a country. The government



Figure 8.3 : Jaggery making



Figure 8.4 : Oil press



Figure 8.5 : Fruit-processing



Figure 8.6 : Dal mill

establishes industrial estates to boost industrial development and increase the employment opportunities in a region.

Industries have an important role in the economic development of a country. Hence all countries take special efforts for promoting industrial development. To enable this, industrial estates have been established. These estates are given concessional rates for electricity, water and taxes.

Maharashtra Industrial Development Corporation (M.I.D.C.) :

On 1st August 1962 in Maharashtra, the state government established the Maharashtra Industrial Development Corporation and through it, set up industries in every district of the state. Through this, the decentralization of industries is expected throughout the state.

Like Maharashtra, other states have also established such corporations. In these industrial estates very often auxiliary industries have been established. In addition employment opportunities have been made available to local people. In these industrial estates, various facilities necessary for industries have been made available.



Can you tell ?

Study the factors given in fig 8.7 and classify them as per their advantages and disadvantages in relation to industries.

Geographical explanation

There are many advantages of industrial development. There are also some disadvantages also. Because of industrialization the youth

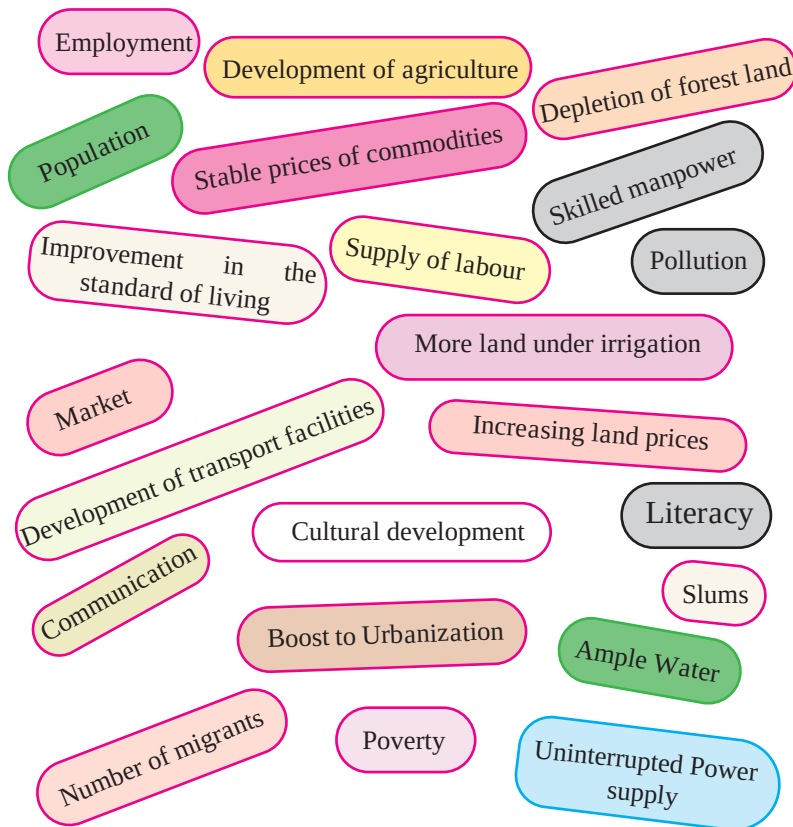


Figure 8.7

in an area get employment. It also helps in increasing the per capita income. For the economic development of an agrarian country, it is necessary to have industries based on agricultural products. Such industries not only result in agricultural development but also the economic development of a country. The standard of living of people also rises.

Information Technology Industry :



Let's recall.

- What are the different ways of obtaining information?
- Which is the fastest way of obtaining information?
- How do WhatsApp, Facebook, Google maps, etc. work?

Geographical explanation

Information Technology is an important engineering branch in today's world. In this branch, work is carried out by computers. In this industry, India has made rapid progress. The availability of skilled manpower is the most important reason for this.

In this industry searching for technical information, obtaining, analyzing and compiling it, presenting it graphically and providing it as per requirement is the nature of work. All this information is obtained from the internet on computers, mobiles and other devices. The creation or development of special softwares on these handsets is another important component of the industries.

Today there is an increase in the use of computers and technology. There is a great variety in the types of information collected, and it is used all over the world.

Corporate Social Responsibility :

When an industrialist or a group of industries work for the betterment of the society and for the conservation of the environment, it is known as **Corporate Social Responsibility** (CSR).

Showing responsibility to society by helping needy people or needy organizations is an important task. With this objective, when an industry or a group of industries have made a profit of over 5 crores, they are expected to spend at least 2% of their profits on acts benefitting the society. For this, their assistance in the areas below is expected.

- The provision of educational facilities
- The provision of facilities related to health.
- The development of the village or region.
- Establishing centres for people like environmental development centres etc.

There is a tax rebate on the amount spent by the industry or group of industries on various schemes under Corporate Social Responsibility.



Think about it.

Talk about the interrelationship between human resources and industry.



Do you know ?

Industrialization and Environment :

Manufacturing includes processing of raw material in order to obtain the finished product. During the manufacture of the products some harmful residual materials and pollutants are also left behind. As a result there is pollution of air, water, noise and land. This type of pollution is termed as industrial pollution.

Industrial pollution, the resultant environment and the problems relating to it are being seriously discussed at an international level. While deciding the location of industries, along with the traditional factors, serious thought is being given to environmental factors. To control the pollution caused by industries, proper disposal of sewage and harmful residuals and proper treatment of the pollutants should be done.

Fuel saving vehicles and other equipment must be manufactured. Pollution control, preservation of natural resources, environmental management etc. are factors which must be taken into account.

In India, in order to check industrial pollution many laws and regulations have been framed, both at the national and the state levels e.g. the Water and Air pollution control Act and the conservation of Environment Act. The Central Pollution Control Board of India looks into prevention and control of pollution. In this context, any contravention of these laws would mean that the management of the factory would be held responsible and would be liable for punishment.



Give it a try.

In India many important public sector undertakings have been established. Their acronyms (abbreviated forms) have been given. Find their long forms and write them down. BHEL, BEL, HAL, ONGC, NTPC, NTC, SAL, GAIL, e.g. BHEL: Bharat Heavy Electricals Limited.



Give it a try.

Important information technology centers are called IT hubs. Find out with the help of internet in which cities such hubs have developed and mark them on an outline map of India.



Information Technology Industry



Use your brain power!

- Which type of industries can stem the flow of people towards urban areas?
- Where is it necessary to establish these industries?



Think about it.

If you become an industrialist, which of the following would you do?

- Only make profits
- Start a second industry from the earlier one as a supplementary industry.
- Will spend some amount for the society after the deduction of tax.
- Provide help for the creation of new industrialist.

Water Literacy- The need of the hour :

Water is a basic necessity in human life. Due to increasing population, changing climatic conditions, irregular rainfall, etc many countries in recent times are facing problem of acute water shortage. India will also be facing a problem of acute water shortage in near future. This has come to light through a survey of water industries.

India is a country blessed with ample natural resources. The rivers of India are rainfed. It is essential to check this flow of water and use it judiciously.

Small check dams, canals, recharging our underground reservoirs, reusing water, reducing water pollution, treating waste water from industries and reusing them etc. are all methods of proper water management.

While using water for our personal needs we need to take care not to waste water and to use minimum possible water. Even these small steps will help in overcoming the problem of water shortage. Public awareness on water management is the need of the hour.



Give it a try.



- In what context is this logo ?
- What will be the benefit of this programme ?
- What is the correlation between this programme and employment ?
- Which are the Navaratana industries of India ?
- Why do you think they have been accorded this status of Navaratna ?

Q. 1. Mark ✓ in the box next to the right alternative

(A) Which factor amongst those mentioned below does not directly impact industrial development?

- (i) Water ☐
- (ii) Electricity ☐
- (iii) Labor ☐
- (iv) Air ☐

(B) Which of the following is a small industry?

- (i) Machine parts ☐
- (ii) Book binding industry ☐
- (iii) Silk Industry ☐
- (iv) Sugar industry ☐

(C) Which of the following cities is not an IT Centre?

- (i) Old Delhi ☐
- (ii) New Delhi ☐
- (iii) Noida ☐
- (iv) Bengaluru ☐

(D) An amount of 2% of the profits have to be utilized for which purpose by industries?

- (i) Income Tax ☐
- (ii) Corporate Social Responsibility ☐
- (iii) Goods and Service Tax ☐
- (iv) Sales Tax ☐

Q. 2. State whether the following statements are true or false. Correct the incorrect Statements.

- (a) Small and medium industries of a country are harmful to heavy industries.
- (b) The level of industrialization is an indicator of the economic development of a country.
- (c) The aim of the industrial development corporations is to decentralize industrialization.
- (d) Corporate social responsibility is compulsory for every industrialist.

Q. 3. Answer the following questions in three to four lines.

- (a) What are the facilities provided by the government to industrial estates?
- (b) Write in your own words how industrial development impacts national development.

(c) Give your opinion in short on the usefulness of Corporate Social Responsibility.

(d) Mention three features of small industries.

Q. 4. Write detailed answers to the following questions.

- (a) Explain the factors affecting industrial development.
- (b) State the advantages of the Maharashtra Industrial Development Corporation.
- (c) Explain the importance of the I. T. Industry.
- (d) Considering India's population, the development of industries is a good solution to the problem of unemployment. Explain.

Q. 5. Prepare a flow chart for the following statements.

- (a) The journey of clothes we use from the farm to ourselves.
- (b) Essential factors for the location of any one industry.

Q. 6. Highlight the differences.

- (a) Medium industries – heavy industries
- (b) Agro based industries – Information Technology industries.

Projects :

Collect information about any one project undertaken in your village/city under the Corporate Social Responsibility and present it in the class.

