

Class 12

Geography

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Modern large scale Manufacturing:-

- **Raw materials-** large quantities of raw materials are needed for industries. Therefore, industries are located near the source of raw materials. The industries are located near mines, forests, farms and seas. It saves the cost of transportation. Sugar mills are located in the areas where sugarcane is produced. Iron and steel industry uses bulky raw materials. Steel centres are developed where coal and iron are easily available. Industries producing perishable goods (meat, fish, dairy products) are located near the areas of production. Example, jute Mills in west Bengal and cotton textile mills in Maharashtra are located there due to easy availability of raw materials.
- **Power supply-** Coal, oil and water power are the main sources of power. Most of the industries are located around coal-fields. The industrial regions of Damodar Valley (India) and Ruhr Valley (Germany) depend upon coal. Some industries use large amount of electricity. Such industries like chemical industries, aluminium industries and paper industry are located near hydro electric stations. Petro-chemical Industries. use large quantities of petroleum. Example. Iron and steel centres in India are located near Jharia and Raniganj coal-fields. Chemical fertilizer plant is located at Nangal where cheap water power is available from Bhakra Project.
- **Transportation-** Modern industries need cheap, developed and quick means of transportation. Water-transport is the cheapest means of transport. Cheap means of transportation are required for the movement of workers, raw materials and machinery to the factories. Manufactured goods should be sent to the market at low cost. Example. The great industrial regions of the world (Europe and the U.S.A.) lie at the ends of North Atlantic Ocean Route. Great Lakes provide cheap transport to the industrial region of the U.S.A.
- **Climate-** Stimulating climate increases the efficiency of the labourers. Certain industries require special type of climate. Cotton Textile industry requires humid climate. Film industry needs good weather with clear blue sky. Areas with favourable climate become huge markets. Examples, Mumbai is the leading centre of Cotton Textile due to wet coastal climate. Dry climate has led to the location of Aircraft Industry at Bengaluru (India) and California (U.S.A.).
- **Capital-** Large amount of capital is invested in many industries. Many industries have been located in big cities like Delhi, Mumbai and Kolkata. Many banks and companies provide capital in these areas.
- **Land-** Heavy industries need cheap level land. Steel industry at Jamshedpur is located in a broad river valley.
- **Labour-** Cheap and skilled labour is essential for the Location of the industries. Areas of dense population provide cheap and large labour force. Engineering industries need skilled labour. Example. Cotton Textile industry in Lancashire, Glass industries in Firozabad, Sports goods industry in Jalandhar are located due to availability of the skilled labour. The Swiss are known

for watch making, the British for specialised cotton textiles, the Japanese for electronic goods and Varanasi is known for silk embroidery.

- Government policies- Most of the industries are located with government aid. Government policies may encourage or discourage the industries in an area. Government may offer cheap land, reduce taxes; help in providing machinery and transport.
- Market- Industries are located near the market for the manufactured goods. Urban and industrial centres with dense population provide a large market. Market is based on demand and the purchasing power of the people. Countries of Asia don't make a huge market because the people cannot afford to buy goods. Dairy industries are located near the ready markets of towns. Light Engineering industries are located near the big factories which require these goods. Aircraft and arm industry have a global market.
And Some industries are located with a military motive such as Aircraft industry at Bengaluru.