

University of Huddersfield Repository

Siddiqui, Kalim

Industrialisation under colonial regime: industrial development in British India, 1900-1946

Original Citation

Siddiqui, Kalim (1996) Industrialisation under colonial regime: industrial development in British India, 1900-1946. Pakistan Journal of History & Culture, 17 (1). pp. 11-59. ISSN 1012-7682

This version is available at http://eprints.hud.ac.uk/id/eprint/16810/

The University Repository is a digital collection of the research output of the University, available on Open Access. Copyright and Moral Rights for the items on this site are retained by the individual author and/or other copyright owners. Users may access full items free of charge; copies of full text items generally can be reproduced, displayed or performed and given to third parties in any format or medium for personal research or study, educational or not-for-profit purposes without prior permission or charge, provided:

- The authors, title and full bibliographic details is credited in any copy;
- A hyperlink and/or URL is included for the original metadata page; and
- The content is not changed in any way.

For more information, including our policy and submission procedure, please contact the Repository Team at: E.mailbox@hud.ac.uk.

http://eprints.hud.ac.uk/

Industrialisation Under Colonial Regime: Industrial Development in British India, 1900-1946

Kalim Siddiqui

Introduction:

The aim of this article is to investigate and analyse the development of modern industry in India from 1900 to 1946. In this context modern Industry means privately owned industries, since state investment in the industrial sector was almost

India has received far less attention than it deserves in the field of political economy of development. Most of the recent literature is concentrated on South East Asia, Africa and Latin America. Most of the existing literature does not take into account the nature of industrial development, the situation of agriculture sector, domestic markets, the development of the technology, etc. Several economic historians have, pointed to the "beneficial" impact of the colonial rule. They maintain that India particularly benefited from the colonial rule, which laid the foundation for modern industries in India.

Liberal economic historians portray India as one of the "leading industrial nations" of the colonial nations. Such a view gives credit to the British colonial government for encouraging the development of moreon industries in India, which is far from the truth. It is true that industrial development has taken place in India since the beginning of the 20th century but it cannot be compared with any independent European nation or even British settler colony such as Canada and Australia. Industrial develop-

ment was lopsided and was particularly concentrated in consumer goods sector. Little capital was invested in the sphere

of heavy industry.

did not benefit by the colonial rule but lost whatever potential it had for economic development. India was the first country in Asia which had direct massive contact with the European process and benefited from the over all industrialization. especially in the period after 1912. Yet it never completed the industrial nations and started the building of modern industries, fewer domestic resources compared to India, but developed Whereas Japan started industrialization later and with much industrially far in excess of the level attained by India. Contrary to the above opinion, I shall argue that India

Destructive Impact of Colonial Rule:

industrialisation, but there are different phases of colonial rule in India. From the beginning of the 20th century, the attitude of the British rulers seems to have changed due to the changing Indian and foreign economic and political situation. I will In general colonial domination is hostile to indigenous

examine this aspect latter in this article. occupation of Bengal and lasted till the end of the 18th century. be divided into three phases. The first began with the British declining effect on the fertile regions of central and east India. In this period unequal trade and forced plunder had a long India was forced to accept unequal trade and artisans and of the East India Company. There existed no limit to the peasants were coerced into producing according to the dictates; plundering. During the second phase, in the beginning of the interest lay in turning India into a market for their manufacthe rising bourgeoisies class interest began to dominate. There 19th century, British policies towards India changed. In England tured goods and a supplier of raw materials for their industries. The third phase began in the second half of the 19th century and coincided with the emergence of the finance capital in Britain. During this period many industries sprang up in India. However, the economic history of the colonial period can During the mid-18th century India's industry were

determined by village handicrafts, which were closely linked

official policy of discrimination and they even sometimes directly eliminated the local manufacturer; by turning them into the the handicrafts industries. These industries were ruined by the specialisation in certain areas was highly skilled and ensured with agriculture. The system of hereditary handicrafts survival. In addition a greater challenge existed for the local no savings. As a result a little drought or bad weather led to increased exploitation of the peasantry, which left people with goods. Another factor which curtailed internal demand was the imports of luxury goods, and did not create demand for local of British rulers were different, and was mostly met by the factor which reduced the domestic markets. The consumer habits indigenous feudal lords courts and armies was an additional producers and exporters of raw materials. The dismissal of high quality products.² However, colonial rule adversely affected producer in the form of foreign competition. famine and deaths. Poor peasants had to borrow for their

and by the extraction of "tributes" in treasures, or bullion, or in plundered by the purchase of Indian products at lower prices; "tribute" continued to rise throughout the 19th century along pretext of "home charges" and by private remitting of funds. The removal of millions pound from India to Britain, under the the forms of commodities. The "tribute" was a direct annual merchandise and 42.9 million pounds represented treasure." million pounds. The amount of tribute in 1940 reached to 69.7 the 20th century the amount began to rise more rapidly, and between 1851 and 1901 the excess of India's exports multiplied bear this "tribute". By 1913-14 it rose to 19.4 million pounds and "it is only by the excess of exports over imports that India can the tribute to be 3.5 million pound annually. According to him, Colonel Sykes, a director of the East India Company, estimated with the growth of foreign trade. In the mid 19th century, million pounds of which 26.9 million Pounds represented between 1901 and 1913 it rose from 11 million pound to 14.2 three times from 3.3 million pound to 11 millions pound. But in During the rule of the East India Company, India was

pay in silver and gold because the British industries were Europe. Before the occupation of Bengal the Company had to maximum profit by monopolising the trade between India and The aim of the East India Company was to obtain

Indian goods. Therefore, the Company had to pay in precious sale of slaves in the West Indies and Spanish America.⁴ For metals in exchange for Indian goods. Britain received gold by the more than two and a half centuries (1500-1757) the balance of undeveloped and thus could not offer much in exchange for trade was always in favour of India. The Company bought cotton

and silk goods in exchange for bullion.

suppress native industries. It even set up parliamentary and replace it by the British produced goods. To achieve this aim enquires in 1833 to find out ways to destroy the local production ers by imposing "free trade". Internal trade in India was also while Indian markets were thrown open to British manufacturthe extent of Indian manufactured products declined drastically, discriminatory custom duties were imposed. As a consequence, restricted by the imposition of customs and transit duties, which made Indian goods more expensive in their own markets. The colonial government in Bengal did every thing to

out that only by imposing heavy duties on India's export market for British manufacturing products. The enquiry pointed Commons to investigate how India could be developed as a products, and not relying on technical superiority, could India be In 1813 an enquiry was carried out by the House of

transformed into a market for British products.

economy as devastating . Prosperous towns and markets began populous and prosperous than London. M. Matin reported to the Clive described the city of Murshidabad as more extensive, Murshidabad, Surat, Malda, Faizabad etc. became desolate. to decline. Great manufacturing towns such as Dacca, of Murshidabad and of other places where native manufacturers Select Committee: "The decay and destruction of Surat, of Dacca, consider that it has been in the fair course of trade. I think it have been carried on, is too painful a fact to dwell upon. I do not has been the power of the stronger exercised over the weaker". follows: "From 1818 to 1836, the export of twist (cotton products) Karl Marx described the destruction of the Indian economy as from Great Britain to Indian rose in the proportion of 1 to 5200. But at the same time, the population of Dacca decreased from to 100,000 yards, while in 1837 it surpassed 64,000,000 yards. In 1824, the export of British muslins to India hardly amounted The impact of the destruction of handicrafts on Indian

> celebrated for their fabrics, was by no means the worst conse-150,000 inhabitants to 20,000. This decline of Indian towns

silk products were still superior to British made cloth. But importer of the same goods. George Tucker noted only ten years British goods into Europe. costs of Indian industries. The export of British manufactured industries were not totally ruined until 1813. Indian textiles and possessions. India is thus reduced from the state of a manufacmanufacturers to supply a part of the consumption of our Asiatic displaced in this country but we actually export our cotton after the Parliamentary Enquiry: "The cotton fabrics, which the task before the British state became to transform India from bourgeoisie when Napoleon Bonaparte banned the import of products to India became a life and death issue for the British England was determined to promote British industries at the facture of cotton and raw silk declined, but its handicrafts turing to that of an agricultural country".9 In India the manuhitherto constituted the staple of India, have not only been being an exporter of cotton goods to the world to being an Once the bourgeoisie in England consolidated their power

railway would bring a growth in engineering and other modern and 1914 can be characterised as the imposition of free trade industry remained a dream. The colonial policy between 1857 did not take place in India. Even Karl Marx's prediction that the ment of capitalism within agriculture. Under such circumstances concentration of land in feudal hands led to the emergence of which was reflected in increased land rent. The high degree of rural areas. 10 This resulted in a sharp rise in the price of land, industries in India and gave rise to a huge overpopulation in the resulting from "free competition", retarded the growth of ment. Thus, the destruction of a number of handicraft industries and many of them fell victim of malnutrition and unemployreceived a further setback due to growing competition from the policy on India and the use of Indian export surplus for financ it is hardly surprising that the over all industrial development feudal rents, which inevitably retarded the transition of develop-British factories. The destruction of industries ruined weavers After the Napolinic wars, Indian handicraft industries

ing the transfer of capital to colonies of white settlement in Australia, New Zealand, South Africa, USA Canada etc.

The export of raw cotton to England and import of manufactured cloth into India led to industrial devastation in of the handioraft industries." For example, the population of India. The urban population declined as a result of the closure of spinning and weaving which afforded employment to a tion of almost every family in the city, was abandoned. "The arts Dacca was reduced to half. The spinning of thread, the occupanumerous and industrious population in the course of half a century passed to England which supplied the wants not only of the foreign nations but also of India herself. Between 1815 and from 26,000 to 400,000.12 The destruction of handicrafts had 1832, the value of export of Indian cotton goods fell from 1.3 a century the backbone of India's production of non-agriculture devastating affect on India. As noted by Kuczynski: "Within half million to below 100,000, while the cotton goods imported rose

goods was broken". 13 manufactured goods. India cotton goods were barred from the colonial government of West Bengal set up Parliamentary British markets by state initiated tariffs duties. In 1833 the nous produce by British manufactured goods. To achieve this Enquiries to discover the ways and means of replacing indigediscriminatory custom duties were imposed. Even the internal duties, which discriminated against Indian goods in her own trade in India was restricted by the imposition of inland custom markets. This example clearly shows that the state was used to helped to expand the market for British goods in India. The discourage Indian goods entering Britain, while the same State only when it had achieved the status of unchallenged leader of ideology of "free trade" became the ruling doctrine in Britain Thus India was turned into market for the British

century, for example, Parsis were the most important collaborawork under the British capitalist. In the last quarter of the 19th the world tor of the British capitalists. Sir Jamsetjee Jejeebhoy (an Indian) was in partnership with Jardine Matheson & company, for the Many Indian financiers and traders found it profitable to

trade of opium with China. Many Parsi contractors were also

engaged in the construction of railway lines. However, such

confined to the Parsis community, it spread to other religious communities as well. Premchand Roychand, a Hindu business collaboration between Indian and British businessmen was not British firm, in Bombay. men, was a broker to the Ritchie Stewart and Company, a

economy was open and was forced to accept the doctrine of free it primarily was an agricultural country. By contrast the Indian walls against manufactured goods from foreign countries. The and Canada. Even these colonies were allowed to erect tariff the rest of the world including the British colonies in Australia end of the 19th century. It was quite contrary to development in trade. India imported most of its manufactured products from ism after its independence in 1776, although in the 18th century to develop its manufacturing industry by employing protection-United States, the other colony of the British Empire was able with the other countries. 14 earned a large amount of foreign currency, which ultimately trade deficit with them. The export of these natural resources trade surplus, while at the same time Britain had normally a Europe and North America. With these countries India had Britain and exported raw martials and even food grains to benefited Britain's trade balance with other countries and India's trade surplus was used to help Britain's trade deficit The government followed the policy of free trade till the

increasingly difficult to compete in European markets. duty free at the time when most of the European markets were of its cotton crops. This pattern of colonial trade suited the beginning of the First World War India exported a large fraction being almost closed for British manufactured products and was British completely. In Indian markets British goods could enter Britain was the biggest buyer of India's exports. Upto the

satisfy the aspirations of her people-----. Both on economic and not merely to give India economic stability, but in order to the British colonial policy in India. The change could be seen in forward policy in industrial development is urgently called for, towards India. The report concluded that "On all grounds a in 1918, clearly gave reason for this change in economic policies Montague-Chelmsford Report on Indian Constitutional Reforms terms of rising import duties against foreign goods. The The beginning of the 20th century marked a change in

imilitary grounds, imperial interests also, the demand that the ;natural resources of India should henceforth be better utilised. industrialised India will bring to the power of the empire". 15 We cannot measure the access of strength which an

security the political cooperation of Indian bourgeoisie was change served two aims as was summarised by the R.P. Dutt: reflected through economic concessions being given to them. This "In the first place, in so far as the foreign industrialist was replaced by the development of industry within India, the capitalist power. In the second place, the establishment of a capital than if the market were lost to an independent foreign British financial and political domination could secure a more favourable possibility to extract the ultimate profit for British assist Britain to win back the Indian Market". 16 Moreover, the tariff system could prepare the way for imperial preference to and society. As described by Hobsbawm, "At the very moment colonial markets brought rapid change in the British economy when Britain emerged on the victorious side in the first major and unconvincingly disguised as 'mandates', 'protectorate' and was on her knees, when the British empire, sometimes lightly war since Napoleon, when her chief continental rival Germany world map than ever before, the traditional economy of British satellite middle eastern states, covered a great extent of the decline' something that economist argued about before 1914, now Imperial global military interests and the necessity of

became a palpable fact",

as materials were diverted for war purposes. The import of shortage of shipping and because British ships were attacked by cotton piece goods from Britain was affected by the war due to affected. During this period many business owned by Indians the German submarines. The export of other products were also supplying materials for the war. At the end of the war, a shift sprang up besides cotton, in engineering and other fields period. The other major import items also began to decline such example, of cotton piece goods declined during the post war countries, particularly with the Great Britain. India's import, for had taken place in India's trade relations with the foreign British economic control decreased due to war conditions

> as iron and steel, paper, and cement and India began to produce these goods domestically on increasingly scale

<u>ا</u>ر Changes in the Colonial Policy:

also profited with the war boom and during the First World War cotton mills of Bombay in 1920 was 120%; Jute mills in Calcutta also increased and the average dividend paid by the leading and steel output increased from 239 tons to 1384 tons. Profit cement, iron and steel increased. Between 1913 and 1927 iron cantly and after 1913 the production of materials like sugar, concerned. Investment in modern industries increased significomposition of private investment in modern manufacturing was World War marked a major structural break as far as the iron and steel industry was also granted protection. The First 7.5% in 1917 to 11% in 1921 and to 15% in 1922. Later on, the they earned nearly 42 million pound. The import duties of cotton piece goods was raised from

ment of modern industry in India. After the war Britain cement, glass etc. The international situation after the First were build such as paper, sugar, match box, iron and steel was changing slowly in favour of local producers as a result the development of modern industry in India. Government policy of a declining supremacy. Since the middle of the 18th century western world had changed from the undisputed leader to that emerged as a weakened power and Britains position among the At the same time new industries producing for internal markets production of cotton goods, tea, coffee, jute goods etc. went up. early 20th century the rise of other countries economies such as world's trade came to be carried by the British ships. But in the World War had changed, which certainly affected the developcontract to buy steel helped Tata first's Indian steel plant. The men to keep its international rivals out. The government led colonial authorities to give concessions to Indian businessmarkets. In India, opposition to British rule increased. All this Germany, United States, and Japan started penetrating Indian financial centre of the world. During this period most of the Britain was leader of the western world and London was the Tata company also recruited Sir Fredeick James, former British The First World War marked a new period in the

Industrialisation Under Colonial Regime

civil servants, to put forward their case before the British

colonial officials. The Indian war of independence in 1857 forced the

some of these products in India. In 1870 the government British to realise that delivery of military goods takes long time and an ordnance factory. The industries built during this period from Britain and it would therefore, be advantageous to develop initiated the development of the coal, metallurgical industries railways, coal etc. aided production for export. 18 The footwear exports. Later, the building of a few heavy industries such as were mostly connected with processing raw materials for and wool industries were also expanded, mainly to supply for the

colonial armies. Later, colonial authorities realised that if they wished to

policies: "Selective protectionism" was introduced against the retain India as a colony, they would have to change their metals were dominated by the Germans, French and Belgians; non-British rivals in India. The Indian markets in ferrous textile markets by the Japanese; and sugar markets by the such industries, but at the same time these industries did not duties restricted the import of goods from these countries. This Dutch businessmen from Indonesia. The introduction of import provided a good opportunity for the local producers to invest in compete with the British producers. It meant simply that local producers were encouraged at the cost of Britain's foreign rivals.

from the late 19th century. Between 1874-79, the British share importing 18% from the rest of the world. But by 1899-1904in total Indian imports was 82%. This meant India was only third. Japan, German, and United States increasingly chalshare in India's imports fell from two thirds to a little over one further declined to 63%. During the war 1914-18, the British India's imports from Britain fell to 66% and later by 1909-14 it Japan's proportion rose from 2.6% in 1913-14 to 16.3% in 1935-Britain share in India's imports fell from 63% to 35%, while 36; Germany from 6.9 to 9.2; and the US from 2.6 to 6.7% in the lenged Britain in Indian markets. Between 1913 and 1932 same period. 19 (See table-I). The decline in the British competitiveness could be traced

Cotton Piece Goods Imported by India. (in Million Yards)

Table: 1

			100.
n.a.	391	552	1934
II.d.	349	426	: 1933
		160	1932
n.a.	580	#07	
49	340	383	1931
67	321	523	1930
123	357	1456	1928
	1.57	1467	1926
7	776		1961
45	90	955	1001
58	1	2379	1911
Other Countries	Japan	Britain	Year

Source: A.S. Pearse (1930) The cotton industry of India, Manchester, p.205.

 $_{
m 6.00} {
m ds}$ in Indian markets. In 1913 India imported 97% of its total Japan's share went up to 47.3%, while Britain's share declined. imports from Britain and only 0.3% from Japan. But by 1933 made British goods more competitive in Indian markets. In The colonial government imposed preferential duties which exported to Britain. High duties were imposed by colonial return India enjoyed preferential tariffs for the raw martials government on a number of non-British products. For example, after the challenge by the Japanese competition, the duties on fabrics of non-British origin were raised by 75% in 1934. Japan was most successful in challenging British cotton

The Development of Modern Industry:

occurred one in 1896-97 and another in 1899-1900. Both famines Moreover, at the end of the 19th century two severe famines located in Bombay Presidency and owned by Indian capitalists. provided employment for 43,000 people. Most of these mills were of lives, which affected the rate of progress of the cotton textile and the accompanying plague cost many hundred of thousands In 1880 the number of cotton mills in India was 56 and

which had not been colonised in the beginning by the British and plundered by the East India Company, as was the case with industries. relied on local businessmen, who were mostly Parsis, to carry railways. The region also did not have rich plantations and Maratha region was not easily accessible before the spread of and financiers in the west India as collaborators. Indeed, The long period and during the resistance, the British needed traders the Bengal. The Marathas had resisted British occupation for a mineral resources like Bihar. Due to these reason the British out trade and other business activities in western India. This most important section of the Indian business community. They competition from the British businessmen, as was seen in was the main reason why Parsis in west India faced less system and thus no occupation was considered shameful to also had some advantage over Hindus, as they had no caste Eastern India. This is how the Parsis developed into being the The situation would had been different in western India

western India such as Bombay and Ahmedabad, Bombay being in the Bombay. Later the situation changed and from 1901 to looms and 53% of the spindles in the whole of India were located the biggest centre. For example, in 1901, nearly 56% of the markets.20 There were a few weaving mills in South India, Bombay. These mills were mainly producing for the domestic encouraged by the demand for the coarse yarn demanded by the 1914 the number of cotton mills in Ahmedabad grew faster than quality cloth and requiring more superior varieties of yarn acquired this yarn from the western India. handlooms. However, the handlooms specializing in better In 1900 the cotton mills were mostly concentrated in

> Industrialisation Under Colonial Regime Besides the protection policy, the other important factor

increasing yarn export to Far East Asian countries. The export of cotton and yarn increased ten times between 1878 and 1900. for the development of textile industry was related to the and it greatly depended on the export of yarn to Chinese Bombay was the main centre for production of yarn for export instability in China, the cotton yarn export from India to China markets. At the end of the 19th century, despite the political and rose again to 298 million lb in 1906. But the volume of yarn in 1900. But it declined in 1901 because of the plague in Bombay had increased from 143.2 million lb in 1890 to 242.6 million lb Japanese goods in the Chinese markets. Contrary to this, the export to China again declined in 1914, due to the increased Chinese domestic production of yarn and the growing number of during the famine in 1896-97. The production of cotton piece internal demand for cotton goods in India was rising except chiefly spinning mills. During the war period the number of imports declined. Before the First World War, most mills were goods produced by the Indian cotton mills increased while mills and spindles remained the same, but the number f looms rose by 25%. In 1912 British cotton goods supplied 70% of the by the Indian producers. But in 1918, Britains share declined to total consumption of the Indian markets, with only 28% was met 35%, while India's rose to 61%, (see table-2)

Table: 2

Cotton Piece Goods Production and Import, (Million Yards and Relative Share) India 1900-36

_	1905		OUGI								Voor	
1	693		0.74	490	Crey	†1†V	Quan-				Mill Production	-
	17.1	1	1	14.3			Office	Chara			luction	
-	TOOO	1033		646		LILY	+;+v	Quan-		Production	Handloom	:
	200	22.0 1875 25.4 2335			Share				on	B		
				1017	Quan- tity					as todatt	Importe	
		57.5	τ 1 τ	00.1	637			Share	2			

19251934 192019101936 19321930 19153135 2982 2480 3322 1964 1496 1042 1563 25.658.952.353.8 44.8 62.2 40.1 33.6 1265 1255 1519 931943 868 1257 888 21.323.7 23.6 26.627.320.321.223 9 2162 753 9332019 1203 873 1405 1529 21.1 14.1 36.0 45.117.5 34.953.118.9

Source: G.K. Lieten: Colonialism, Class and Nation, p.3

profitable to invest in industries. 22 gentry invested increasingly in the industrial sector. The roya profitable than in Punjab and Madras and therefore the landed houses of Baroda, Indore and Gwalior also found it secure and Bombay city.²¹ In West India investment in the land was less the power generation electric supply and tramway system in Morgan firm of the United States, Tata successfully monoplised in Bombay and one in Ahmedabad. In collaboration with the he set up his own industry. Later Tata owned four cotton mills as a skilled supervisor in a military gun factory in Bombay. one of the leading Indian capitalist, was an engineer who started sector particularly in cotton mills. In fact, the Indian bourgeoisie invest its enormous accumulated wealth into the industrial British company and Tata was a known trader and broker before Wadia, another emerging capitalist was a contractor for a began to emerge after the First World War, Sorabji Shapurji, In western India, the commercial bourgeoisie began to

out put of raw cotton produced by the slaves in the United domestic markets States. After the war cotton industry catered entirely for the had very little impact on the price, which was dominated by the major producer of the raw cotton. India's supply of raw cotton capitalists. In the international market India was only one of the The cotton industry was entirely owned by Indian

> exports to East Asia less competitive and as did the fall in price after the introduction of import duties. In addition the revaluatrade, the cotton industry was eliminated and only remreged of British cloth and yarn on the Indian market. industry. The rise in the value of the rupee naturally made tion of the Rupee in 1889 greatly imperilled the Indian cotton materials and a large home markets. With introduction of free had greater chance to develop owing to close access to cheap raw The textile industry was the only major industry, which

varieties of cotton piece goods. cotton growing areas hindered the development of finder staple cotton and also the lack of proper irrigation facilities in cotton in large enough quantities, which therefore hindered the India could import finer yarn from the United States. I think of long staple cotton (from Madras).was exported, In addition that the absence of strong internal or external demand for long piecegoods. Such argument had no truth because a large portion production of fine spinning and the fine varieties of cotton It was often argued that India did not produce long staple

industrial sector. Indian enterprenuers played a greater role and greatly dependent on the foreign markets. Overall between 1914 capital of the mills located in Bombay was contributed by share According to the Banking Enquiry Commission, 50% of the controlled many more through directorships (see table 3) rapidly. More and more Indian capitalists began to invest in the and 1945 the investment in industrial sector was increasing were also affected by the depression of the thirties, as they were major industries of the Eastern regions, such as tea and coal regions, where most of the cotton mills were located. The other 65%. After 1918 investment in the cotton industry rose comcreased in the number of factories of the Bombay Presidency was themselves.²³ holders and only 21% was loaned by the managing agents ment in the Eastern regions was slower compared to the western pared to the jute industry. As a result, the industrial develop-This advance was unevenly divided geographically. The infactories with at least ten workers increased from 926 to 1541. be established between 1921 and 1931 the total number of The cotton industry was not the only modern industry to

Table: 3

Particulars of Ownership and Management of the Most Important Industrial Concerns in Bengal and Bombay

			-				
Province and nature of factories, etc.	Numb by cor which	Number owned by companies of which the di-	aed s of	Number privately owned by	er ely l by	Number managed by	er
	rector	rectorors are	;:				
	Euro-	Indi-	of .	Euro-	Indi-	Euro-	Indi-
	Anglo-	ans	races	Anglo-	91.5	Anglo- Indi-	7
	ans			ans		ans	
BENGAL							
Tea Planations	158	18	1	46	18	193	47
Collieries	53	6	21	7 .	43	66	63
Jute Presses	50	16	1	7	36	64	45
Jute Mills	49	(4 ²) (2)	1 %	н	ı	50	1
Machinery & Engineering Workshops	22	1	1	4	7	30	7
Brick and tile facotires	7	ယ	4.	10	136	00	153
Oil Mills	4	4	ı	-	118	12	115
Printing Presses	11	4	П	17	65	32	71
вомвау							
Cotton, ginning, cleaning and Pressing factories	13	92	13	i . 1	194	10	304
Cotton, etc. Spinning, weaving and other mills	12	92	25	š. I	18	43	106
		_		1 1			

Source: Census of India, 1911, Vol. 1, Indian, Part 1, Report by E.A. Gait, Calcutta 1913. A.K. Bagchi 1972, p.183.

In India jute industry remained almost completely in the hand of British capital until the second World War. All the directors were British except a single Indian, L.N. Kanoria. India had monopoly in raw jute production, but there was absence of Indian owned jute manufacturing. It is far from the truth that Indians were not interested in enterprise. The growth of the cotton industry demonstrates their enterprise skills. Jute was produced mainly for the export both as raw and manufactured products. Due to export commodity, contact with the foreign market could only be made by those who had already businessmen certainly possessed this knowledge and contact with the foreign markets.

imported nearly a third of the total jute exported from India. In exported, especially to Europe and the United States. Britain raw jute duty free. The jute industry was almost wholly British import duties on manufactured jute. These countries imported these countries the jute industry had been built by imposing owned and had no serious tariff problems. As far as export was obtained higher profits, can often afford to accept lower-profit concerned, it is obvious that an industry which had protected public works due to the war. margins in foreign markets. It seems clearly that protection in home markets, cheap raw material and labour and therefore, to workers being laid off from the railway construction and other purposes. The jute industry in India received cheap labour due During the war jute demand increased tremendously for the war Indian markets helped the jute industry in foreign markets. Before the first world war nearly half of the raw jute was

Between 1896 and 1900 nine new jute mills were added. There was a slight slow down in the growth of mills and export demand from 1910 to 1912, but in 1914 it increased again. The number of looms and spindles rose rapidly mainly due to increase in exports. The new growth mostly benefited British

Flour and Rice Mills

14

NW

Machinery and Engineering Workshops

O

2 39

10

ω <u>5</u>

27

a major factor in determining the jute prices. Jute production in raw jute. India being the only supplier of jute, therefore played owners had no direct control over the jute production. They were 92% of the output of jute was exported. The European jute mill India was highly dependent on foreign markets and more than irrigation works for the expansion of jute cultivation. The organised and the prices they obtained were beyond their little and thus had no incentive. Jute cultivators were not peasants did not have any interest because they were paid very not interested, as it did not find it profitable to invest on urged the government to encourage this. The government was interested to expand the cultivation of jute and therefore they control. Often they were indebted and had no capital to invest for the expansion of the jute crops. Indian jute production held a monopoly on production of

in Calcutta, 2.8 million pound was invested in eight companies registered in Britain.²⁴ 1913-14 was up and down and had no clear rising trends in real of estimated capital of 10 million pound invested in jute industry mills mainly came from British residents in India. In 1909, out which was an American owned. Capital invested in the jute terms. Three mills were added between 1909 and 1914, one of Capital investment in jute industry between 1905-6 and

countries was expanding in the early 20th century. It seems that grow over its competitors in other countries (see table-4). It was calculated that the ratio of net profits to paid-up capital was 10 the war provided great opportunity for Indian jute industry to capacity did not increase, and as a whole the engineering sector in 1914, rose to 58 in 1915, and to 75 in 1916.25 But production was engaged in war works and there was a shortage of shipping. also constantly declining. The absolute control of the jute industry by the Europeans was The demand for manufactured jute by the foreign

Industrialisation Under Colonial Regime

The Percentage of Raw Jute Manufactured in India

Table: 4

1920	1919	1918	1917	1916	1915	1914	1913	Year
66	57	65	71	63	61	59	49	% of Raw Jute Consumed by Indian Mills

Source: Indian Jute Mills Association (IJMA): Report of the Committee for the Year Ended December 31, 1921, (Calcutta 1922) p.163.

such as Birla jute manufacture and Hukamchand jute mills Ltd. the war Indian businessmen began to invest into the jute mills tion in raw jute by the Indian traders, mainly Marwaris. After After the First World War Australia, New Zealand, USA etc. This export was increasing until the depression of 1930's, when began to import larger quantities of jute products from India. and were not organised enough to influence the price of the raw and jute growers. Peasants were competing against each other depression aggravated the relations between the mill owners the demand for raw and manufactured jute declined. The effective cartels. Furthermore, the prices of raw jute varied very jute. On the other hand, mill owners were organised into highly much between the pre-harvest and post-harvest periods. In such The jute mills were concerned about the rising specula-

a situation, mills could maximise their profits by buying in stocks during the post-harvest period, when the prices were lowest. During the depression, the area under jute cultivation, fell by 50% from 1930 to 1932, but rose by 25% in 1933-34,

despite the fall in prices of raw jute. 26

the landlords increased. Money lenders were the local big During the depression the jute growers indebtedness to

cultivators. In addition the rising land revenue demand of the landowners or traders, and operated a powerful control over the state forced the cultivators to sell their crops before the harvest,

as the crops provided the security on loans they had taken. The railways was another sector where large amounts of

capital was invested during the British rule in India. In 1853, the government proposed a large scale railway construction in India, with a view to increasing the supply of raw materials and According to Lord Dalhousie himself, "The commercial and social to expand the market for the British manufactured goods, advantages which India would derive from their establishment England is calling a loud for the cotton which India does already are, I truely believe, beyond all present calculations. produce in some degree, and would produce sufficient in quality, and plenty in quantity,if there were provided the fitting means of conveyance for it from distant plains to the several ports adopted for its shipment. Every increase of facilities for trade has been attended, as we have seen, with an increased demand for articles of Europeans produce in the most distant markets of of the globe under circumstances which defy the foresight of the India.----New markets are opening to us on this side wisest to estimate their probable value or calculate their future

British capitalists demanded the government to spend

of land was not covered by the railways. The railways as a whole more money on railways than was being spended as vast tracts under the old guarantee system the government had to bear the had been making a loss upto the end of 19th century, because entire losses and also partly because a sizeable proportion of the

railways were constructed for military purposes. account of state railways. This was mainly due to the govern remained unprofitable producing a net financial loss on the Moreover, until the end of the 19th century railways

Industrialisation Under Colonial Regime

railways in colonial India did not bring any economic benefits to railways by providing guaranteed interest payments. The ment policy of attracting the British investors into Indian the local people or generated new incomes to the Indian people since a large part of the total expenditure was sent abroad. The development of railways in India also failed to act as a stimulant for heavy machine building industries as they did in the European countries. It was summarized by Jenk as such: "More from England and the building and operation of railways with than one-third of the capital invested in Indian railways down the cost of its importation to the East. The importation of coal to the early eighty's was spent England for the railway iron and staffs which were English and who had to be paid according to English standard, diminished further the benefits which could

accrue to Indian from railways". The construction of railways and fighting colonial war

increased the public debt of India tremendously. By 1900 the public debt reached 224 million pounds and by the 1913 it rose the rest was due to the railways and the irrigation system. The the Afghan war and the suppression of the revolt of 1857, and to 274 million pound. Nearly 70 million Pounds were spent on railways construction the state did not the guarantees to the increased the amount of debt. The government provided a private investors and later direct state construction, enormously guarantee of 5% interest rates for investors for this uneconomic

investment in the railways in India.

primarily to link the ports to inland regions. It is also clear that inland centers.24 External trade was very important for the martials from inland regions to the ports than between different the railway charged much lower rates on freight for transport of government. The British had full control of the foreign trade at most of India's major ports, except Bombay. British capital fully shipped and also through which Manchester piecegoods were controlled Calcutta's port from where opium, jute, tea etc. were imported. The monopoly over shipping provided British a loins Besides military purposes, the railway was constructed

share of profits from the commerce of India. purchase of materials by the railways were mostly located in expenditure in India. The Indian firms which benefited from the The railways spent only a little fraction of their total

TO THE PARTY OF TH

controlled by the Europeans. Prior to the famines of 1899-1900 Calcutta, Bombay, Cawnpore, and Madras, and were fully irrigation seemed to be more attractive. For example, major bring maximum profits. On such criteria, the investment on the government was opposed to investment which could not irrigation works on an average yielded a net revenue of 7% and in this period the government could raise loans in London at

lower costs between 3% and 4%.

raise the marginal propensity to consume but such affects were not evident due to absence of modern industries in India. Thus the development of railways gave a disappointing result in India ! The government expenditure on railway was supposed to

compared to other countries.31 railways consumption was small. Therefore, the railways still? Governments share of imports of iron and steel products for nonwere the main consumer of iron and steel products and certainly railways purchase of Indian steel would have influenced the Colonial officials gave preference to British products.

Table: 5

domestic steel plant.

Imports of Railway Materials Made of Iron and Steel into India. (Figures in Tons)

1000-0	1005-6	1903-4		1900-1		1898-88	100000	1894-95	7		-		Year		
	307,550		222,150		133,150		241,300		150,713	FIOINTE	From All Countries			Including Construction Material	
	293,600		218,000		123,150		235,100		150,155		From the U.K.	,		ction Material	

		1924-20
	80,764	1007 22
187,85	200,533	1922-23
89,624	91,842	1920-21
	511	1918-19
28,059	31,449	1916-17
283,900	286,950	1914-15
229,250	237,300	1911-12
243,750	254,950	1909-10
203,500	210,850	1907-8

Source: Govt. India, CISD: Accounts of the seaborne trade of British India, Calcutta, annual.

in 1912 with a bigger plant and with a larger amount of iron the west coast to supply the electricity to Bombay city. Both ore. The Tatas also constructed a hydro-electric power station on dependent largely on the government guarantee to buy a part of these enterprises were owned by the Indian capital and were also provided land at low prices and extended railway lines. the output from the Tata iron and steel plant. The government The Tata iron and steel company began producing steel

, tons in 1913 to 124,000 tons in 1918 and two-third of the total including the Indian iron and steel corporations and steel Tatas elements of the steel industry were owned by the British, steel production in India was carried out by the Tata Plant corporation of Bengal. Steel production increased from 19,000 alone. The Tata iron and steel mill was constructed and financed government in terms of providing an infrastructure and for by the Indian capital but was patronised by the colonial War order increased profit for the steel industry. Besides

1920s. During its initial stage the plant was without tariff was an important industry of Indian private capital in the marketing its products. The Tata Iron and Steel Company (TISCO) was certainly

35

enjoyed the benefits in terms of location of the plant and cheap mainly as a reward for its services during the war. TISCO protection but received protection soon after the world war ore provided great advantage to TISCO. As was expressed by ${f J}_{i}^{*}$ availability of labour, coal, iron ore etc. The cheapness of iron ton of pig iron costs (in 1915) 75 cents here, as against 8 dollars silver. However, the plant did face several bottlenecks, since the went up from 16.2 to 22.6 million tons. There was also a sharp war Tata owned very few coal mines. The overall coal production in Pittsburgh". The quality of the coal was not good. Before the Kennedy, consulting engineer of TISCO: "To make the ore for a increase in the output of maganesite, iron ores, lead, Zinc and expert and raise loans in London money markets. The colonial largest single customer of steel products whose authorities were ed. The other major problem was market. The railway was the view point that India cannot make good quality of steel dominatcolonial bureaucracy which was reluctant to provide technical sceptical about Indian made steel products. Most of the engineering firms were owned by the British and engineers and the technical experts were also British.

During the war imports of steel were reduced because of the war demand for steel and the shortage in shipping. In the 1918 the government bought nearly 90% of the Tatas total output. The demand was increased rapidly by the British armies fighting in the Middle East. TISCO increased its production much more than it was earlier scheduled. For example, the plant was suppose to produce 175 tons of pig iron a day but it raised was production to 250 tons a day.

TISCO's management was aware that after the war the situation would not be easy. It was expected that European and American steel producers would penetrate Indian markets. TISCO imported machines and tools at much higher prices after the war, which came down in 1923. These factor posed difficulties to selling steel at world prices. TISCO aware of the world situation drew up a contact with the Railway Board for the supply of iron and steel materials at very low prices, below those supply of iron and steel materials at very low prices, below those

of imported steel.

The Steel Industry Protection Act in 1924 granted; protection for a period of three years. In 1926 the government asked the Tariff Board to report on the conditions of the steel.

industry. Tariff Board suggested that the period of protection should be extended to seven years, which was required in order to access the effects of the extension of capacity of the TISCO from 420000 tons to 600000 tons of steel. In 1926, TISCO and Bird and Co., representing the United Steel Corporation of Asia, demanded that protection guarantee should be extended for a period of ten years. The steel industry still considered that new capital will be forthcoming for the investment in the industry if the government declared that protection would be continued for as long as the circumstances needed it. The government refused to provide tariff protection for a period of ten years.

Consumption of Steel in India

Year 1923-24 1924-25 1925-26 1926-27	Total Consumption of Steel (1000 tons) 839.6 839.4 1038.0 1004.6	% of TISCO in total Consumption 17.6 28.5 31.3
1923-24	839.6	17.
1924-25	839.4	28
1925-26	1038.0	31
1926-27	1004.6	37
1927-28	1402.6	30.1
1928-29	1145.9	23.7
1929-30	1078.7	35.4
1930-31	811.4	51.2
1931-32	627.2	65.4
1932-33	574.1	72.3

Source: ITB: Statutory enquiry 1933, Steel Vol. 1, Delhi, 1934, pp.57-58.

11 (1996) Industrialisation Under Colonial Regime

There were other major producers of pig iron such as Bengal Iron Company and Maysore Iron and steel works. Maysore Iron and Steel works was set up by the Maysore state government. It was closely linked with the TISCO, whose consultant C.P. Perin was also the chief engineer of the TISCO. The plant started production in 1923 of about 28,000 tons a year. The Steel Corporation of Bengal (SCOB) was registered in 1937 and initially it planned to produce 200,000 tons of finished steel. SCOB supplied a large amount of steel during the second world war. The plant was small in size and was aimed at supplying the uncovered markets of the TISCO.

Despite the low price, the railways did not accept TISCO's tender in 1926. The Madras railways, for example, bought nearly 87% of their total requirements of rails from the Britain. Of course, railway officials expressed doubts regarding Tatas materials, despite the Report by the 'Great Indian Peninsula' which made a comparison between Tata and British rails and found no big difference between Tata and British rails and found no big difference between the British and Indian produced rails. In the 1930s depression TISCO prices were lower than those predicted by the Tariff Boards. The sale of the Tata products also slumped, mainly due to sudden cuts in the railways expenditure and a drop in the over all government expenditure, TISCO was selling substantial amount of pig iron, abroad as in India the demand for pig iron had greatly decline. Meanwhile, the price of coal feel sharply, which enabled the

In the beginning of the 20th century the rapid growth of the jute and cotton industry encouraged the development of engineering firms. The future of engineering firm was dependent on public works such as roads, and bridges. Railways built their own workshops and also began to produce few a locomotives, but most locomotives were imported from Britain. Engineering firms received infrequent orders from the government up until the light World war. During the war situation changed and they received increasingly large number of orders from the military.

The Industrial census shows that the number of workers engaged in engineering workshops between 1911 and 1921 increased from 23,147 to 82,182 and the number engaged in the metal industry rose from 71,045 to 169,693. Engineering firms

located in Bombay and were more concentrated on producing machines for the cotton mills, while the firms in Calcutta were more dependent on government orders especially from the railways. The government did not provide any protection to the ship building industry in India. Mere imposition of duties on imported vessels would have not helped the industry very much.

Moreover, most of the inland ships were in British control in terms of ownership and management. In 1921 nearly 90% of the coastal trade and 98% of India's foreign trade were carried out in foreign owned ships.³⁵

companies located in Bombay, namely Indian Cement the end of the 19th century, India had only three major cement would have been sufficient to support several cement plants. At Despite the low domestic consumption of cement in India it supply. A government report noted that the capacity of Indian available on a vast scale in these regions. Many investors began India was well suited to cement industry as raw materials were increased rapidly, after the first world war. North and Central was small. In North and West India the consumption of Cement 10,000 tons per year. In Southern India the demand for cement Industrial Limited, was built in Madras with the capacity of directors were Indians. In 1904 a cement company, South India Co.Limited, Kanti Cement Ltd., and Bundi Portland Cement Co. problem was not only the lack of demand but excess capacity. It demand was about 390,000 tons, in 1924.36 It seems that the cement mills were already 550,000 tons, the total Indian to invest in the cement industry, which led to an excess of Ltd. They were run by miscellaneous companies and most of the because the Tariff Board considered excessive internal competiprotection was not extended to the Indian cement industry was due to private investor misjudging the market. Tariff on vast scale india imported cement from other countries. As the industry. Despite the low costs and availability of raw materials tion rather than foreign competition a problem for the cement and 1925 the demand for cement increased mainly due to a machinery for cement fell during the same period. Between 1992 1920 to 651,000 tons in 1930, while the value of imported figures indicate, cement consumption rose from 229,951 tons in The Cement industry developed rather late in India.

Industrialisation Under Colonial Regime

decline in the price of Indian cement. Internal competition and the existence of excess capacity was responsible for this decline.

Table: 7

Production, Imports and Consumption of Cement in India from 1914 to 1938. (Figures in Tons)

1937-8	1934-5	1932-3	1930-1	1928	1926	1924	1922	1920	1918	1916	1915	1914	Year
1169,894	780,794	592,531	570,000	558,000	388,000	263,746	151,336	91,253	84,344	38,672	17,912	945	Indian Production
31,916	69,111	85,485	120,575	137,428	106,916	117,950	136,920	138,698	27,177	97,543	142,469	165,723	Total Imports into India
1201,810	849,905	678,016	691,000	695,000	495,000	381,696	288,256	229,951	111,521	136,215	160,381	166,668	Total Indian Consumption

Source: The history of cement industry in India, Associated cement company, 1937.

A.K. Bagchi: Private investment in India, 1972, p.354.

companies and produced a tendency to monopoly formation of even during the depression some cement companies did well. In almost all output. This stabilized the price to certain extent and of India Limited. The latter was responsible for the sale of Concrete Association of India and Cement Marketing Company a majority of directors from the western India. In 1934-35 the The newly formed Associated Cement Companies Limited had total output of the cement industry was purchased by the dividends of the cement companies ranged between 10% and 1936 another attempt was made to merge the cement companies. dropped sharply. During the second world war nearly 90% of the 20% . But in 1938 with the emergence of Dalmia Jain the government, as a consequence of which the investment in the cement monopolies faced a growing challenge and the price cement industry was profitable in this period compared to other Moreover, the fall in the price ousted three cement

by the introduction of import duties on Indian sugar by Britain and later with the introduction of free trade which further exports to Britain being 59,373 tons. But exports was threatened requirements of sugar from 1839 to 1847, the average annual the 1860s. India supplied about one-quarter of Britain's total undermined the development of the sugar industry in India. As sugar industries in other countries. Furthermore, most of the and the rapid progress in technologies of beet sugar and cane plantation, despite the nominal abolition of slavery in the 1850, price of sugar exported from the West Indies sugar slave a result India begin to import sugar. This was due to the low countries production sugar from beet provided subsidies to their sugar industries. In those countries the government took an sugar (gur) did not decline very much in India. Unrefined sugar increase in import of sugar, the domestic demand of unrefiend interest in the advancement of the sugar industry. Despite the industry, while in India the government did not show any interest in the advancement of the technologies in their sugar more nutritious than sugar. Another important factor why the was preferred by the Indian people as it was supposed to be it was cheaper for them, as they used their own family labour. peasants grew sugar and produced unrefined sugar was because India was producing and exporting unrefined sugar until

During the depression the government was pressed hard for more revenue demand which led to the introduction of import duties. This resulted in the drastic reduction of imports of sugar. The imports of sugar fell from 933,000 tons in 1929-30 to 510,000 tons in 1931-32 and 366,000 tons in 1932-33. In India the increase demand of domestic sugar led to a rise in the acreage cultivation land under sugar cane. The price of most of other crops also fell drastically, which prompted cultivators to change to sugar, increasing the area under sugar cane in India. The area under sugar cane cultivation rose from 2.7 million acres in 1928-29 to 4.6 million acres in 1936-37.

Other important mills were also beginning to be built namely markets. Low grade paper was supplied by imports from Europe. The mill concentrated on higher grade paper for domestic also. The mill faced severe competition at the end of the century. which utilised grass, jute, rags, waste paper etc., as raw materipromote its products. This was due to old methods of production and production and material and production and more efficient production and not using advertisements to But the mill failed to expand its capacity by not changing to ment of hand made paper and the increase in the literacy rate. for machine made paper were expected to grow due to replacebetween 4% and 10% up until 1912. The local markets in India 💸 Paper Mills, built in 1870 under British control. Soon after in E. papers, not the best quality paper. the First World War Indian mills were supplying simple quality Titaghur Paper Mills and Bengal Paper mills in 1890s. Before Lucknow. It managed to pay an annual dividend ranging ₈ 1882 a paper mill was started by Indian businessmen in : The first machine made paper factory in India was Bally π_0

In 1925 protection was extended to the paper industry on the suggestion of Indian Tariff Board. After protection, the output of the paper rose from 1693 tons in 1924 to 2600 tons in 1932. This expansion was due to better utilization of capacity rather than entrance of more mills in the paper industry. With the introduction of modern steam and power plant the productivity and the quality of paper was improved. The new mills such as Orient Paper Mills were set up by the Birla and Rothas paper mills were by the Dalmia. They were primarily manufacturing kraft paper. The Mysore Paper Mills received government aid and later government bought some shares also. Indian timber

resources were of poor quality and the paper industry was relatively capital intensive. Before the First World War the rapid progress of wood-pulping process in Europe undermined Indian paper industry. But after the introduction of the tariff protection, the bamboo-pulping process, although the precess was known for very long time, was increasingly used in the paper industry. Indian paper mills began to supply the domestic markets on greater scale but this growth was not very great due to the existence of mass illiteracy and low incomes amongst the Indian people.

In the 1920s many Indian businessmen started glass and match factories. There was no lack of entrepreneurial skills among Indian businessmen and they were willing to take risks. N. Chettiars, a businessman from Madras, had a highly developed trading agency and money lending business all over the state. He had made millions in hoarding but did not invest in modern industry before tariff protection was introduced. Their enterprenuerial skills were easily observed when after the introduction of tariff duties as many Indians began to invest in modern industries.

ed more capital from Europe. Such was not the case in India with Britain, while India had export surplus with Britain, while policy Australia, and Canada usually had an import surplus industrialise Canada, Australia, and South Africa. Due to this The policy of tariff protection against imported goods helped to from adopting the polices of state supported industrial growth. of India is illustrated by the fact that in every other West except in the railways. Foreign investment in India consisted factories began to develop in white settler colonies, they attract of agriculture, while India was experiencing totally the opposite proportion of people in industry had been increasing at the cost by the British in India." The weaknesses of the industrialization mostly the reinvestment of the earlier profits or salaries earned India had export surplus with Britain. Moreover, as more European country, engaged in building modern industries, the India was the only British colony, which was prevented

Table: 8

The Percentage Distribution of Workers Between 1931 and 1951.

		Composite
1.4	2.0	Domestic services
1.9	1.6	Professions
		tration
2.6	1.2	Public force and adminis-
2.0	1.7	Transport
6.1	6.0	Commerce
13.0	16.3	Industry
73.0	71.2	Agriculture and mining
1951	1931	

Source: V.K.R.V. Rao (1962) Papers on national incomes and allied topics, Vol. 2, Bombay, p.8.

Before the First World War, most of the industries were confined to Calcutta, Bombay and Ahmedabad. But after the war with the emergence of the Cement industry it spread to other regions as well. The later development of the sugar industry in the United Provinces and Bihar spread the industries to central India. After the war cotton mills also spread to other regions in India particularly to Madras, Coimbatore, Cawnpore etc. In South India the availability of cheap labour and hydroelectric power encouraged investment in the cotton industry. In North India the sugar industry emerged as an important industry, while in North-West India there was little industrial spread despite the availability of cheap raw cotton and other agriculture products. Some small industries began to develop related to peasants need.

Although tariff protection was extended to certain Indian industries such as iron and steel, sugar, cement, paper etc., it was not extended to all consumer industries. During the war India's economic relations with the Britain were changing, but India was still serving the British imperial interest. For example, in 1929 India had a positive trade of 19 million Pounds with the United States, which was being used by Britain to balance her trade deficit with the United States.

I have devoted my emphasis to large scale industries because they constitute the modern sector of the economies.

enough capital, but were entirely dependent on Europe for new century by P.C.Roy. The firm had its own research laboratory were increasingly controlled by Indian capitalists, who had company developed many important drugs, which were produced and invested a considerable amount of money in research. The works was set up on very modest scale in the end of the 19th was few. For example, the Bengal Chemical and Pharmaceutical in research and new technology independently, but their number technology. However, there were some firms who were investing independence, the India economy remained backward. In most mainly with the help of domestic resources. Indeed on the eve of important industries were still controlled by foreign capital such businessmen controlled more industries after 1914 but many ates rights between the government and the producers. Local parts of rural India the land tenure system had many intermediforeign monopolies which opened their branches in India. as, Dunlop, General Motor, Unilever, ICI and many other Modern industries grew under the Tariff protection and

During the whole period of 19th century and until the 1940s India had an export surplus over her imports. Even after India was reduced to the status of an agriculture nation, a large amount of capital continued to be transferred from her stagnant and declining agriculture. Table 9 indicates the nature of India's trade from 1901 to 1940. After the first world war, India's trade surplus declined because of the growing impoverishment of her economy, but still the colonial government maintained a positive balance of trade. This favourable balance of trade did not mean growing prosperity. The excess exports were continuously siphoned off to Britain to enrich the British economy. Nearly 80% of the India's exports consisted of raw materials and

agriculture commodities. This transfer of surplus from the agriculture sector brought misery and famine to the peasants rather than any relief from the export of agricultural commodities. Moreover, about 70% of India's exports went to countries outside the British Empire, while 75% of India's imports came from Britain.

Table: 9

Foreign Trade in Commodities, from 1901 to 1940 (in Million of Rupees)

1936-40	1920-24	1911-14	1901-5	Year Im
1,502.2	2,540.4	1,530.5	836.2	Imports
1,808.5	2,863.4	2,283.0	1,310.1	Exports
306.3	323.0	752.5	473.9	Excess Export

Source: H. Venkatasubbiah, The Foreign Trade of India, 1940, New Delhi, pp.28-29.

The actual net inflow of foreign capital into India was very little. It was particularly insignificant in the area of capital goods industries. Most of the foreign capital in the early 20th goods industries. Most of the foreign capital in the early 20th century came in the forms of loans to meet the balance of payments deficit caused by the unilateral transfer made to the Britain in the form of "home charges". In fact, if one pitted the Britain in the current account due to interest, against dividends and home charges against the net inflow due to foreign borrowing on the capital account, one would find that there was an outflow of capital from India virtually throughout the entire.

colonial period. In the financial sphere before 1920 European capital controlled most of the institutions, but later Indian businessmen

entered as well. In 1914, for instance, foreign owned banks held 70% of the deposits in India, but by 1937 it decreased to 57%. The first modern credit institution owned by Indians appeared only in the 20th century. For example, the Bank of Baroda was set up in 1908, the Bank of India in 1906, and the Central Bank of India in 1911. By 1914, eighteen Indian banks were into operation, with each had more than half million Rupees. The total capital and reserve of these banks amounted to more than five million Rupees and deposits to 15.1 million Rupees. But these banks were smaller than British banks and they were mostly financing trade and commerce. Thus no Indian bank was still in position to lend long term loans for industrial enterpris-

Indeed in 1925 Indian capital in the industrial sector had increased but still foreign capital dominated in many spheres of the national economy. For instance, foreign capital had a monopoly in foreign trade, transport, finance and credit system. In 1925-26 there were 819 foreign firms, mostly British, operating in India with a total paid up capital of 7.4 billion Rupees and Indian firms with a capital of 2.7 billion Rupees. These figures clearly shows the predominance of foreign capital, but the situation was changing and in the 1930s depression and the Second World War strengthened the hand of Indian capitalists into the sphere of modern industries.

However, British capitalists created Anglo-Indian companies in India. This was done in the wake of the intensification of the independence struggle. In 1927 the Rupees rate of exchange was raised in relation to foreign currencies, which greatly reduced the competitiveness of Indian goods and strengthened the position of foreign goods imported by India. This led to the bankruptcies of many industries in India and a slow down in the industrial growth in the 1929. The industrial upswing of mid 20s did not last very long. During the depression the Indian economy was also hit hard. The price of agriculture exports, main foreign earnings of India feel much deeper compared to the industrial goods imported by India.

As industries grew in Canada and Australia, they attracted more capital from abroad, while in India most of the reinvestment was made from the profits or the salaries earned by the British working in India. Even after the First World War,

and by the lack of financial facilities. British investors were Indian entreprenuership was discouraged by the administration strong influence over the state, the Indian government was products. Since British manufacturers still had therefore a. interested to preserve India as a market for their finished interested to invest in India, but the British manufacturers were development of modern industry in India. As a result, foreign forced to adopt a non-interventionist policy regarding the foreign trade, banking, railways etc. Investment in these sectors contrary, they facilitated their penetration into the Indiandid not compete or threaten British manufacturers. On the investment found avenues such as government loans, mining pounds were invested in commercial and industrial undertakment of 365 million pound in India in 1909, only 2.5 million markets. According to estimates, out of a total British investings. Of course, the share of modern industry in particular, was

even more smaller.42 Barriers Against the Expansion of Domestic Markets:

development of modern industry in India was the low productivity in the agriculture sector. Despite the growth of a few modern economic conditions of the people who were dependent on production declined between 1900 and 1945. This meant that the industries, the agriculture sector was stagnant and the food crop agriculture for their livelihood were not improved. Meanwhile share of the manufacturing sector in the national income in resulting in a drop in the availability of food per capita. The the population rose, while agricultural production declined 1920-21 was only 8%, before that it varied between 4% and 7%, The other important factor responsible for the lack of

Industrialisation Under Colonial Regime Table: 10

Productivity per Acre of Different Crops in India. (Rs. per Acre in 1938-39 Prices)

1935-6 to 1939-40	1930-1 to 1934-5	1925-6 to 1929-30	1920-1 to 1924-5	1915-16 to 1919-20	1910-11 to 1914-15	1905-6 to 1909-10	1300-1 00 1001	1800 1 18 1904-5	Annual average	
35.08	37.65	36.91	37.44	39.76	40.48	37.64		42.49	Rice	
19.28	17.03	18.18	18.42	15.79	14.62	14.64		15.04	Cotton	
202.69	207.03	166.01	162.64	163.81	152.65	132.00	100 00	137.33	Sugar	
24.45	21.11	21.56	23.18	23.22	23.98	200	99 45	22.92	Wheat	
13.53	13.37	13.89	22.20	27.83	17.05		16.61	11.97	Fowar	
81.41	87.34	84.47	76.76	84.10	60.10		68.30	83.26	Jute	

Source: A.K. Bagchi (1972) Private investment in India, p.96

continued after the war did not provide any substantial number merchants cum money lenders increased, while peasants land ing dependence on agriculture (see table 11). The table 11 based tenure diminished. The slow lopsided growth of industry which changing nature of occupational structure in India between 1901 on various Census Reports, presents a comparative view of of industrial employment opportunities, which led to an increasto 1931. It is important to note that the number of people employed in various sectors changed little within three decades. The concentration of land in the hand of landlords and

Distribution of Labour Force.

Table: 11

	Population (in millions)	
	(in	
9	mi.	
5	llio	
1031	ns)	
38		

	1901	3€	1911	**	1921 %	1 %	1831 70	9
Agriculture, forcatry	64.1	68	70.2	72	69.6	73	72.1	72
G linkour	5.3	6	2.6	ယ	2.8	ı	3.7	4
Celleta Imoni								,
Manufacture, mining	9.9	=	9.6	10	8.9	9	9.1	9
Hini construction	7.0	ית	5.4	5	5.6	67	5.6	6
Tracle	3,0	1		1	1			
Transportation and	9.0	10	9.3	10	8.7	9	9.5	9
other services								

Source: Census of India: 1901, Vol. I, part 2, table XV; 1911, Vol. I, part 2, table XV; 1921, Vol. I, table XVII; 1931, Vol. I, part 2, table X.

Table: 12

The Growth of the Relative Rural Over Population

1031	1921		1911	1001	1001	1681		Year
352	616	310	315	207	284	207	287	Total Population,
314	200	933	224		195	-	175	Rural Population,
10.6		1.2	7.1		יכ		1	% increнse in totн! population
9.6		ယ	9		7		1	% increase in Rural Population
66		73	11	4	66		61	% of able bodied population living of agriculture

Source: Census of India 1931, Vol. 1, Calcutta, 1932-33.

a conquered people for whom the general principle of a transacants not as the other partner in a commercial transaction but as tion could not be applied. Even the Indigo Commission in 1861 ment compulsion and force was necessary in order to get the starvation to the majority of the peasants. That is why governpeasants. The Indigo plantation brought nothing but poverty and accepted that the cultivation of Indigo was not profitable for the principal means of remitting the tribute and earnings to Britain. conditions Indigo became one of the major export items and a peasants were starved to death. 43 Under such production planters enjoyed the full support of the government, while the peasants to use their labour and land to cultivate Indigo. The planters and money lenders. in India did not promote a free market in land and labour, but tion", but on coercion. Thus, the commercialisation in agriculture pay enough wages and workers were forced by all means to work The planters not only needed the peasants land but wanted their turned the peasants to be increasingly dependent on the European enterprise in India were not based on "free competifor the planters.⁴⁴ Indigo plantations clearly show that the labour for the cultivation of Indigo. Indigo factories did not even European planters in Bihar and Bengal treated the peas-

Later on, government investment in irrigation (which was limited to Punjab and Madras only) expanded the exportable surplus of food grains and commercial crops. This new development in agriculture severely affected peasants and made them more dependent on money lenders and big land owners. The payments for the use of canals was made in cash and rents went up as the expectations of higher average yields led to shifts in cultivation. The cultivation of poor peasants food crops such as millet, jawar, and pulses declined, while commercial crops such as indigo, cotton, sugar cane, wheat etc. increased. The construction of canals without adequate drainage facilities led to waterlogging and salinity, which turned hundred-thousands acres of land unfertile.

Class differentiation increased in the villages. In 1921, there were nearly 3.7 million money lenders in India. Most of the time these parasitic money lenders were not directly ingaged in cultivation or the setting up of landed estates of any substantial size. The money lenders used their accumulation for

further money lending i.e. through the operation of semi-feudal and commercial-usurious to exploit the poor peasantry. The poverty among the large number of peasants was not due to a shortage of land in general, as many economists believe, but was due to colonial and feudal exploitation. Money lending existed in India even before British rule, but it did not dominate to such a large scale in the rural areas. Such a large scale operation of usury was only created after the colonial enslavement of India.

a total of 21 millions or one-fifth of those engaged in agriculture. years after India became a colony the number of landless in India was not so big that it needed to be registered. But a few but it certainly indicates that the number of the landless in were no landless peasants in India. It may not be totally true Sir Thomas Munro, a Census Commissioner, reported that there peasants were in debt to money lenders. The number of landless reached the 22 billion rupee mark by 1932. Nearly 80% of the lenders increased tremendously during the great depression and labourers in the rural areas rose rapidly. For example, in 1842, or one-third of those engaged in agriculture. In certain regions according to 1931 Census their number reached to 33 millions The number of landless agriculture labourers rose further and 1882 was estimated 7 1/2, million. The 1921 Census estimated conditions of the village of Khirhar in North Bihar in 1939 found consisting of 760 families, numbering 5023 people, forming 72%that "the most numerous class is that of the landless labourers, their number was higher. For example, an enquiry into the The absolute sum of peasant indebtedness to money

of the population of the village". Indeed, the situation of most of the small peasants cultivating on small plots of uneconomic holdings, of sub-tenants were not far from the agriculture labourers. The line of division between the two was very hard to draw. As the Report of the Madras Banking Enquiry Committee in 1930 noted: "We find it is difficult to draw a clear line between the cultivation by farm servants and sub-letting. Sub-letting is rarely on a money rental. It is commonly on a sharing system, the landlord getting 40 to 60% or even 80% of the yield and the tenant the rest. The tenant commonly goes on from year to year eking out a precarious living on such terms, borrowing from the landlord, being supplied by him with seeds, cattle and implements. The farm

servant, on the other hand, uses the landlord's seeds, cattle and implements gets advances in cash from time to time for petty requirements, and is paid from the harvest either a lump sum of grain or proportion of yield. The farm servant may in some cases be paid a little cash as well as a fixed amount of grain. The tenant may cultivate with his own stock and implements, but there is in practice no very clear line between the two; and when the landlord is an absentee, it is not always obvious whether the actual cultivator is a farm labourer or a subtenant".46

The reason behind such enormous expansion of money lending activities in the rural areas and the flourishing of usuary operation was due to unbearable rents, and capital and land concentration in few hands. The colonial policy against industrialisation in India forced the Indian businessmen into the sphere of commercial and usurious exploitation of the toiling peasantry. Being deprived of the land and capital by the feudal and merchants, the peasants became tenant share croppers without any rights in the land they cultivated.

particularly with respect to food crops. During the same period non-food crop almost doubled between 1893 and 1946. These million tons in 1945-6. However, during the same period nonproduction declined from 73.9 million tons in 1893-4 to 69.3 million in 1941, while according to Blyn's calculations food population in India increased from 279.4 millions in 1891 to 388 ding of the people on the land, the lack of alternative means to rose from 178,000 tons in 1901-2 to 762,133 tons in 1936-37. As trade deficit with the other countries. The export of raw cotton were exported to earn foreign currency and to help Britain's non-food crops were commercial crops and raw materials, which food crop production increased. For example, the production of cape......combine to force the cultivator to grow food whenever secure a living, the difficulty of finding any avenue of es the miserable condition of the Indian peasants: "The overcrow considerably. Even the Royal Commission on Agriculture noted production, the output of per capita of all crops declined the table 13 shows, despite the increase in non-food crops he can and on whatever terms he can".⁴⁷ The growth of the agriculture sector was negative,

Table: 13

Estimates of Average Annual per Capital Output of Food and non-Food Crops, 1893-4 to 1945-6.

Output in indix

Output of food

	units per capita	· capita	per capita
	Food	All	
	crops	crops	
1893-94 to 1895-96	100	100	587
1896-97 to 1905-06	95	97	560
1906-07 to 1915-16	91	97	547
1916-17 to 1925-26	90	98	538
1926-27 to 1935-36	78	90	461
1936-37 to 1945-46	68	80	399

Source: George Blyn, Agriculture trends in India, 1891-1947, p.117.

Conclusion:

The tariff duties were intended to close markets not for British goods so much as other foreign goods. As was stated by Geoffrey Corbett at the Imperial Economic Conference in 1930: "I have already explained that it is foreign goods that are replacing British goods in Indian markets. It follows that it is frequently against foreign goods that Indian industries requires protection. In some lines there is really no competition at all between British goods and Indian goods. In other lines the measures of protection required is far less......In our scheme for protecting the steel industry and the cotton textile industry.....We have recognised this difference and we have fixed differential duties for British and foreign goods."

In fact, the development of capitalism in India took place under colonial domination, which affected the process of its

formation. The rising Indian bourgeoisie accumulated money from the exploitation of peasants, workers and by appropriating a certain portion f colonial tribute. Later, the growing British industries needed more agricultural raw materials, which made British industrialists more dependent, and they looked for the collaboration with the Indian businessmen. In this operation Indian businessmen acted as middlemen and earned huge profits.

I have already discussed the rise of the industrial sector in India which began with the building of the cotton mills. Industries in India were being built at a time when Britain and the other European countries had already developed their industries and technology and so India was forcibly drawn into the world capitalist market.

came into being were essentially different from the way industries were developed in Britain. The important difference was her own engineering industries and Indians were also discour new industries were set up with the help of technology imported became later the owner of the modern industries in India. These dependence of craftsmen on money lenders and merchants who handicrafts industries were ruined and then led to the complete India's colonial position, where after the colonization the agriculutre, where technology was extremely primitive. Under from Europe. The main occupation for most Indians was ists to buy discarded technology and import technical personal aged from becoming engineers, which forced Indian industrialfrom the metropolitan country. India was not allowed to create such conditions the production of a relative surplus was exbelow the physical needs of minimum survival. worker were forced to sell their labour power at a very low price possible through the lengthening the working day, the Indian tremely difficult. In order to raise surplus value, which was only The circumstances in which the modern industry in India

The introduction of tariff protection to Indian textile was also due to the rise in revenue demand both during and after the war; the protection policy also helped the British to oust their other main competitor in Indian markets namely Japanese. In addition, the growing discontent among the Indian people, which was being reflected with the civil disobedience movement, also led to an increase in the tariff duties. The import of cotton

Industrialisation Under Colonial Regime

piecegoods declined by 57% between 1929 and 1931, while domestic production increased.

due to entering in to new areas such as sugar, cement, cotton, share in these though the Indian capitalist class strengthened paper, chemicals, steel etc. Indian capital controlled more and increased their hold over the Indian economy. This was achieved ed to a greater and more direct appropriation of surplus value more large industries, but British capital had still a significant essentially backward and structurally colonial. If one takes into the west. Indian economy on the eve of independence was change in the general character of Indian economy and India tures etc. The emergence of modern industries brought no through currency manipulations forced loans, military expenditheir position colonial exploitation did not cease. It was subjectundermining of the productive forces in India and not only even grew worse colonial domination was responsible for the account declining agriculture production, which persisted and remained an agrarian economy and a raw material exporters to continued in the first period but persisted until the very last and the 1930s depression, were able to significantly Indian capitalists by taking the advantage of two world

of the modern industries in India, the best available historical century, but was not still completely eliminated. The governchange was somewhat corrected in the beginning of the 20th industry away from domestic to foreign markets. This drastic data leads us to believe that colonial rule shifted the focus of ment offered protection to a few industries. The Iron and steel modern industries in the country have become established industry, for example, was given protection in 1924, cotton behind tariff walls. The iron and steel and sugar industries owe protection policy initiated the growth of the industrial sector in textile in 1927 and sugar in 1932.It is true that the government seek and have obtained protection against Japanese Competi-Old established industries like cotton manufactures have had to their development entirely to protection granted for long period. India. D.R. Gadgil, an imminent Indian economist writes: "Many development and also the existence of a low income in the tion", 49 but it lacked overall government planning for industrial Despite varying conclusions regarding the development

majority of the population hindered the growth of domestic markets. As a result the protection policy did not help very much.

Moreover, the colonial government's policy of protectionism did not cover all branches of industries. During the period of protectionism, the development of modern industry was restricted by discriminatory credits, financial and other measures. The colonial bureaucracy clearly preferred British capitalist over Indian capitalists.

Apart from the iron and steel industry no tariff protection was provided to other capital goods industries and the government did not had any clear policy for the development of capital goods industries in India. Over all government policy did not change except the introduction of protection policy towards certain industries. For example the colonial government did not adopt deficit financing to boost the economy. Even during the thirties depression, the balance of trade on current account was in India's favour.

The discriminating protection policy adopted by the government in the 1920s for the industries in India was half hearted. Along with it the government did not adopt any general policy to encourage industrial development. The government did not show any enthusiasm to assist industrial development. It still had a great amount of faith in self-help and small industries. To take for example the tariff protection extended to the textile industry which was due to the rise in the government revenue demand immediately after the war and the need to protect Indian markets from the Japanese invasion. Also the civil disobedience movement had effect of bringing down the volume of imports into India. The low productivity in agriculture and the low income of the rural population prevented the expansion of home markets.

Overall the impact of colonial rule in India was the retardation of the forces of production by undermining the scientific research and technical change. To sustain colonial rule required a regular waste of considerable amount of human and non-human resources. It also created a greater social distance between the rulers and the people. The colonial rulers extracted surplus, which was used to extend the territorial frontier and to subsidise British firms. Britain not only sold its cotton products

after they had ceased to be competitive with other countries, but also dumped outdated technology to India such as mule spindles.

Morrover Indian industrialists in the thirties realised

Moreover, Indian industrialists in the thirties realised that protection alone would not help them very much and they began to demand state investment in infrastructure and heavy industries. They formed the "Federation of Indian Chambers of Commerce and Industry" in 1927 to fight for their class interest. They also demanded agrarian reform, which they expected would raise purchasing power and thus ultimately expand domestic markets. Later, a National Planning Committee was formed by the Indian National Congress and one of its member was known businessman Purushotamdas Takurdas. Some doubts were raised about the benefits of the state intervention in the economy and was considered it might undermine private businessmen and Congress Party leaders clearly favoured the important role played by the state in the economy.

Foreign capital in India was more in the sphere of circulation in comparison to the less in sphere of production. The penetration of foreign capital was not accompanied by an increase in industrial capital in production, as happened in the USA in the mid 19th century.

Racial discrimination against Indians was also encouraged by the colonial administration. As noted by Habakkuk, "The contrast of Japan with India is certainly one which requires explanation, since India had many of the basic conditions of industrialization — a merchant class, banking and transport facilities, considerable production for the market — and perhaps this case difference in character and quality of the native enterprenuers was the decisive factors". Indian entreprenuers has somehow discouraged by the colonial officials. Capital was not lacking, as India was the main source of the supply of capital to Britain, and capital was even sent from India to other British colonies. Of course, when the profitability of capital investment in the modern industry was low capital was forthcoming on low scale.

NOTES AND REFERENCES

- D. Kumar and M. Desai (ed.), Cambridge Economic History of India,
 Vol. 2, Cambridge University Press, London, 1983.
- For detail see Irfan Habib, *The Agrarian System of Mughal India*, (Asia Publishing House, 1963).

Ŋ

- R.C. Dutt, The Economic History of India in Victorian Age, London, 1904.
- L.C.A. Knowles, Economic Development of the British Overseas Empire, London 1924, p.74.
- R.C. Dutt, Economic History of India, Vol.2, New Delhi, 1960, p.268
- Kalim Siddiqui, 'Interpretation of Indian Econômic History Under British Rule', Verden og Vi, 6, 1988.
- R.C.Dutt, Economic History of India, Vol. 2, Delhi, 1960, pp.112.
- K.Marx, "The British Rule in India' New York Daily Tribune, 25th June, 1853.
- G.Tucker, Memorials of the Indian Government, cited in R.C. Dutt, Economic History of India, Vol.2, p.262.
- Kalim Siddiqui, 'Historical Roots of Mass Poverty in India' in C.A. Thayer et. al. Trends and Strains, Link Publishing House, New Delhi, 1990.
- Kalim Siddiqui, 'Impact of Cononialism on South Asian Economics' Klassekampen, 14 and 15 March, 1989.
- 12. R.P. Dutt, *India Today*, London, 1947, p.119
- J. Kuczynski, 'Conditions of Workers' in V.B. Singh, (ed.) Economic History of India 1857-1956, Bombay, 1965.
- Y.S. Pandit, India's Balance of Indebtedness 1889-1913, London, 1937.
- 15. R.P. Dutt, India Today, London, 1947, p.150
- 16. Ibid., R.P. Dutt, p.151.
- 17. E.J. Hobsbawm, Inudstry and Empire, London, 1976, p.207
- Kalim Siddiqui, 'Does trade Help the People of the Third World'? Bergens Tidende, 12, December, 1988.
-). Economist (1937) February 13.

	20.		58
ment in Giang Calcutta, 1983.	CISD: Financial and commercial 1907, pp. 415-419.	Tommercial Statistics of British India, Govern-	Pakistan Journal of History & Cutture, Aviation 19

21. G.K. Lieten, Colonialism, Class and Nation,

22. A.K. Bagchi, Private Investment in India, Orient and Longman, New Delhi, 1972, p.215.

23. Ibid., G.K. Liten.

24. See Capital 19th March, 1908 and 20th June, 1912, Calcutta. Also CISD: Review of Trade of India for 1917-18, Calcutta, 1918), p.21. see Wallace, Romance of Jute.

26. 25. D. Narin, The Impact of Price Movements on Areas Under Selected Crops in India, 1903-39, London, 1965, pp.165-182.

27. Lord Dalhousie, Governor General, 1848-56, Minut on Railmays

28. L.H. Jenk, The Migration of British Capital, New York, 1927, pp.227-

29. Daniel Thorner, 'Great Britain and the Development of Indian Railways', Jornal of Economic History, 4, 1951.

30. Report of the Committee on the Administration and Working of the Daniel Thorner, "The Pattern of Railway Development in India," The Indian Railways, (Government of India, 1921).

31, F.R. Harris, Jamsetji Nusserwanji Tata: A Chronicle of his life Far Eastern Quarterly, 2, February, 1955, pp.201-16.

32. Bombay, 1958, p.204.

33. J.L. Keenan, A Steel Man in India, New York, 1943 ITB Statutory Enquiry - 1926 - Steel Vol., Calcutta, 1927, p.127.

34. 35. S.N. Haji, State Aid to Indian Shipping, Bombay, 1922, p.6.

ITB: Report of Cement, Calcutta, 1925.

36,

Indian Finance Year-Book, Calcutta, 1936, p.283.

B. C. Burt, 1935, Indian Sugar Industry, p.934.

M. Simon, "Pattern of new British portfolio investment 1865-1914, printed in J.H. Adler (ed.), Capital Movements and Economic

39.

41. 40.

Development; London 1967, pp.33-66. V. Anstey, The Economic Development of India, 1936, p.110. M. Kidren, Foreign Investment in India, London, 1965.

> 42. and Foreign Countries" Journal of Royal Statistical Society, Vol. 1xx, G. Paish "Great Britain Capital Investment in Individual Coloney part 2, January 1911, p.180.

43. Kalim Siddiqui, 1989, "Colonialism, Hungar and Backwardness in the Third World" Materialisten, nr.3.

44.

45. Journal of Economics, July 1939. S. Sarkar "Economic Conditions of a Village in North Bihar" Indian

46. Ibid., R. P. Dutt, 1947, p.220.

47. Th Royal Commission on Agriculture, 1928, p.33

48. Cited in Tomlinson, The Political Economy of the Raj, p.120.

D.R. Gadgil, The Industrial Evolution of India in Recent Times: 1860-1939, Oxford University Press: Bombay, 1971, see also by the same author Economic Policy and Development, p.114.

49.

Kuznets (ed.) Economic Growth — Brazil, India and Japan, 1955, Quoted in D.R. Gadgil, "Indian Economic Organization" In Simon

50.