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 D00036

IID

Distr.
LIMITED

ID/WG.29/5
27 January 1969

United Nations Industrial Development Organization

ORIGINAL: ENGLISH

Expert Group Meeting on Utilization of
Excess Capacity for Export

Rio de Janeiro, Brazil
1 - 12 March 1969

EXCESS INDUSTRIAL CAPACITY IN INDIA
AND THE POSSIBILITY OF ITS UTILIZATION FOR
EXPORT PURPOSES^{1/}

by

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India

^{1/} The views and opinions expressed in this paper are those of the consultant and do not necessarily reflect the views of the secretariat of UNIDO.

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Introduction

1. The development of modern industries requires the judicious utilisation of scarce resources for the development of agriculture and industry, trade, commerce and the services. Under the conditions prevailing in economies where the production apparatus is mainly owned and operated by the private sector, the development of industry is usually guided by a set of norms somewhat different from those adopted under conditions of total government control or in a mixed economy. Thus, in countries like the United States of America, the level of under-utilized capacity in a particular sector of the industry may be the result of an over-estimation of demand in that sector of the economy by entrepreneurs. The imbalance is usually corrected by the diversion of resources into other productive channels, for the marginal cost of the product put on the market by the expansion of production in the same line of manufacture is likely to lead to a lower return on capital invested. Under conditions of perfect competition, therefore, capital and labour will flow into those channels where they will lead to maximization of production and profit.
2. The high levels of profits made in a particular sector of the industry will lead to those profits being ploughed back into the industry and to an increase in labour amenities and fringe benefits. This is how the industrial society of the United States emerged. However, a certain amount of excess capacity is characteristic of the United States economy, and United States businessmen find it desirable to have enough elbow-room to handle orders efficiently and promptly in periods of high demand. In this sense, the United States may differ from other industrial countries where entrepreneurs consider a higher degree of capacity utilization normal.
3. Under conditions where the instruments of production and distribution are controlled wholly by the state, and where direction of capital and labour is also in the hands of the state, under-utilization of capacity is usually not likely to occur. Both the installation of capital equipment and the production will have been pre-planned and, even if excess products are produced during one particular unit of time, say a year, production will be curtailed if it is found that the product is not socially necessary. The excess production in such a case would be added to inventories. In such an economy the question of prices and costs assumes a secondary importance. These prices and costs are usually determined by the state, which functions through an economic planning

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board that has full rights to fix prices of commodities, taking into consideration the social need for products produced in a particular sector vis-à-vis the products produced in other sectors of the economy.

3. In a country like India, where industry is partly controlled by the Government and partly in the private sector, excess capacity will develop in both sectors. When total control over capital and labour resources is not in the hands of the Government, production, planning and distribution are not perfect, and excess capacity, if it comes into being, cannot be utilized fruitfully since the products of the particular sector sell neither in the domestic nor in the international market.

4. There may be several reasons why these goods cannot be sold in the international market: the lack of demand for the item produced or the cancellation of orders by the unit or individual under whose instructions the production was undertaken. A familiar example is that of the cancellation of orders for railway rolling stock by the industry in favour of the Government of India. This led to over-production in this line which became a drag on the resources of Hindustan Steel Limited.

5. In the private sector there may be a separate set of causes altogether. The demand for the goods produced may collapse either because of interdependence of industries or because of production of items that have a single buyer. The depression in the engineering industry in India at present is a result of lack of demand, for the rapid economic development under the Third Five-Year Plan was followed by an almost complete halt in production, owing to the delay in the launching of the Fourth Five-Year Plan. Again, excess capacity in the private sector may develop because of lack of domestic or imported raw materials, shortage of labour, labour unrest, inflationary pressures or other factors.

6. Excess capacity, is not peculiar to developing countries. It can also exist in developed countries such as the United States, the United Kingdom and the countries of Western Europe, but the intensity of excess capacity is more strongly felt by the developing countries, because not only are they short of capital, but this capital is tied up in unproductive channels. This leads to a distortion of the economy which the developing countries find it hard to correct. Under conditions of total control it will rarely be the case that excess industrial capacity develops. Even if it develops, the supreme planning

board will quickly be able to take adequate measures to correct the imbalance and restore the health of the economy.

8. Finally, a word may be said about the main topic of this paper, the utilization of excess capacity for the purpose of export promotion. While this problem will be examined in a subsequent chapter, it should be stated here that utilization of idle capacity and an increase in production using existing equipment means, in general, a lower cost per unit of the product. If the article produced is an article of domestic consumption, excess production may be consumed internally, as lower prices will lead to a higher level of domestic demand. Finding an export market for these goods involves the following considerations:

- (a) Are the goods produced needed abroad, i.e. is there an external demand for such goods?
- (b) Is the quality of the goods produced such as would attract the foreign buyer?
- (c) Are the prices of the goods produced competitive on the international market, quality for quality?

I METHODS OF CAPACITY MEASUREMENT

9. Before coming to a discussion of the concept of capacity as it has been adopted in India, it is necessary to discuss the definition of capacity as it is generally adopted in economic literature. In general, capacity refers to the quantity of output produced per unit of time (usually one year) with a given plant and supply of equipment. It is usual to define two types of capacity, i.e. the engineering capacity and the economic capacity.
10. The engineering capacity of a unit denotes the maximum output produced per unit of time with a given fixed stock of capital, other factors being equal. Full capacity output means the output that the existing stock of equipment is intended to produce under normal working conditions with respect to hours of work, number of shifts etc.
11. The economic concept of capacity refers also to the total output produced, but the output produced is at the minimum average total cost per unit of output. As has been aptly pointed out in a UNIDO paper entitled Industrial excess capacity and its utilization for export (UNIDO/IPPD/1), the economic concept of capacity of an enterprise depends not only on its stock of plant and equipment, but also on the market conditions, e.g. wage rates including overtime, price fluctuations etc. This economic concept implies that the rates of output of an enterprise at a given time under given conditions provides the maximum profit for the enterprise. Thus, changing market conditions can lead to a change in economic capacity, which can occur without any change in real fixed assets.
12. The engineer's physical approach is, however, considered practical and realistic, and is preferred to the economist's theoretical approach of optimum production at minimum average cost. The normal capacity basis, referred to above, is the total possible time (that means any kind of work, machine or other), less reasonable allowance for breakdowns, repairs, inefficiency, reasonable lack of operators and all other regular normal delays, excepting lack of orders. Normal capacity is thus based entirely on the ability of a plant to produce. This is potential operating capacity, also sometimes called practical/normal capacity.
13. While measuring capacity it is necessary to take into consideration the following factors that affect the production process:
- (a) Number of working days during the year;

- (b) Number of shifts worked per day;
- (c) The number of days needed for the overhauling of the plant and equipment, during which the production process must remain suspended;
- (d) The fact that where work stoppage in a particular industry is a normal feature, e.g. in the case of seasonal industries, the productive process also ceases at the end of the season.

14. Other economic factors, such as strikes and lock-outs, the non-availability of raw materials (for one reason or another), the absenteeism of workers and the consequent loss of production, and the breakdown of equipment, either because of wear and tear or because of machine fatigue or other factors that affect the production process, should not normally enter into the measurement of the physical capacity of the plant and equipment.

15. Economists and statisticians have tried to argue that the capacity of units comprising an industry may not necessarily be uniform. While this is an economic truism, because the production efficiency of each unit differs according to various economic factors, it is important to remember that two identically equipped plants installed in two separate places are capable of producing the same volume of output, provided other factors are more or less the same. It is therefore not proper to say that the capacity of the two plants and their equipment is different just because the results obtained are different. Capacity refers to physical possibilities and not to actual realization in the field of production. If production of a particular item in one unit is less than in the other, the causes may be investigated, but the efficiency of capital is the same in the two units. Indeed, if adequate conditions of management, of labour, of raw materials used, of transport and other factors could be reproduced in both places, there is no doubt that the installed equipment in both the places will produce the same quantity of goods. The problem of capacity must therefore be viewed, not so much in the economic concept, but from the point of view of physical possibilities. In other words, the engineer's concept should be universally adopted in measuring the capacity of installed plant and machinery, not only in one unit of an industry, but all along the line.

16. If this standard definition of capacity is adopted and the number of shifts and working days is standardized for each industry on the basis of production techniques, the measurement of capacity will not present the enormous problems confronting statisticians today. In other words, there should

be a standard definition of capacity which can be universally applied, not only in one particular country of the world, but in all countries uniformly.

17. The variable factors in measurement of capacity then remaining will be the average number of shifts worked and the average number of possible working days in each industry. These too can be standardized, at least on an individual country basis, if need be, on an international basis. For example, in a particular country if it is known that a given industry is capable of working on a three-shift basis with a certain plant and stock of machinery, then it would be prudent to measure capacity on the basis of three shifts only, even though some of the units may be working on a one- or two-shift basis. This will only show that the stock of capital, if properly utilized on a multi-shift basis, will lead to the increase of production in that particular line. This indeed will be a good measurement of idle capacity in that particular industry. If, however, the engineers connected with that industry hold the view that if the equipment is worked continuously on a three-shift basis (each shift being of eight hours duration), it will be damaged or its life shortened, it would perhaps be prudent to consider that the capacity of that industry is only two shifts per day.

18. There are certain industries that work on a 24-hour continuous basis. These industries do not present any serious problem. Their capacity is equal to the production that can be obtained from the units aggregated over the entire industry for each unit of 24 hours.

19. The other variable factor in evolving a standard definition of capacity is the number of days worked during the year. (This will cover the case of seasonal industries also.) For example, if it is known that the sugar industry works for 150 days in the year, because raw materials are not available on an average for a larger number of days, it would be best to assess the capacity of the sugar plants on the basis of this average. Here also the number of days worked may vary over different parts of the country. The average of such days may be taken as a basis for calculating the installed capacity of the sugar industry in a country.

20. With standardization of the concept of the number of shifts and working days, the only variable factor left in the assessment of capacity is the plant and stock of machinery in use. Actual production will, of course, be affected by the many other variables already mentioned. These are the availability of

raw material in adequate quantity and of good quality, the availability of skilled and unskilled labour; the intensity of production, the availability of adequate transport facilities; the availability of adequate storage space on the factory premises; the availability of spare parts for the repair and maintenance of the plant and equipment, which must sometimes be imported; an adequate power supply etc.

21. An attempt should be made to formulate an internationally acceptable definition of capacity in each industry, specifying in each case the total feasible number of shifts (of eight hours duration) and working days. The only variation with respect to the latter will be in the case of seasonal industries, but, in this connexion, the average number of days during each year when the raw material of that industry is available may be taken into consideration.

22. This paper has so far been concerned with the definition of capacity, and an attempt has been made to formulate a general definition applicable to all countries on a uniform basis. The structure of industry should now be examined in greater detail so that the various aspects of the points at issue are fully brought out. Briefly speaking, industries may be classified into four groups:

- (a) Industries using a single plant to produce a single product;
- (b) Industries using a single plant to produce a uniform product, or a product where product differentiation can be distinguished; e.g. in the case of textiles, the yarn can be distinguished by counts and the cloth produced measured in terms of square metres;
- (c) Industries producing a product using multiple plants which operate in combination;
- (d) Industries using plants or a combination of plants to produce multiple products.

23. Industries may also be classified with reference to the number of shifts worked:

- (a) Continuous process industries where the productive process is on a 24-hour basis.
- (b) Industries worked on the basis of eight-hour shifts, sub-divided into those worked on a single-, double- or triple-shift basis.

24. The statistical unit of the measurement of capacity to be used when a product is uniform or is capable of being standardized should naturally be the end-product which is the result of the productive process. In those cases

where a combination of plants produces a single product, the capacity should be measured in terms of the unit of the single product produced under the most favourable operative conditions.

25. In a case where a plant or a combination of plants produces multiple products it would be best to measure capacity either in terms of a standardized product whose units should be specified and to which base the actual production of all other products may be converted for the sake of facility of comparison, or in terms of a single denominator, e.g. the unit of currency of the country concerned. This will, however, require the use of deflators in order to ensure that capacity, as well as the actual production of the units, is measured in constant prices. The problem involved in this case will naturally be complex, but there seems to be no way out other than to omit such cases of capacity measurement altogether. This also is an alternative which may not be ruled out: the column for capacity in such cases may be left blank and actual production recorded over a number of years; this will give an idea of the level of rise or fall of production of that particular commodity or group of commodities.

26. The concept of capacity has so far been discussed in general terms. It is now necessary to discuss the methods that are adopted in India for the measurement of installed capacity. Capacity data are collected through the Annual Survey of Industries (ASI). It is also collected and published in the Monthly Statistics of Production of Selected Industries of India. It is necessary to briefly discuss the differences in the scope and coverage of data collected in India on industrial statistics in these two ways.

27. Whereas the data collected through the ASI adopts the activity approach and refers to industries as classified in the International Standard Industrial Classification (ISIC), as adopted by India, the data published in the Monthly Statistics of Production of Selected Industries of India suggests what is essentially a product approach. Thus, whereas in the Annual Survey of Industries a particular unit will be classified with reference to its major activity, the same unit can appear in the Monthly Statistics of Production of Selected Industries of India if it produces multiple products.

28. In the Monthly Statistics of Production of Selected Industries of India, the production and stock figures are published for the major industries of this country on a monthly basis. The coverage of this publication is not

identical with the coverage of the Annual Survey of Industries, as already stated above. This data is a by-product of administration of the Industries (Development and Regulation) Act of 1951, or subsequently amended.

29. The control over major industries referred to in the act is vested in the Director-General of Technical Development, and all units are required to send a monthly progress report detailing various particulars relating to each unit every month. Production data relating to the unit and its installed capacity, as well as stock figures, are extracted from this monthly production statement. Production figures in aggregate, with respect to each industry group, are published in this monthly publication giving the production figures of selected Indian industries. In certain cases, the statistics cover almost 100 per cent of the units, but in the vast majority of industries, although the coverage in terms of industrial units is small, the bulk of production in that particular line is covered.

30. Installed capacities for the cotton, wool and jute textile industries have been given in terms of spindles and looms. For other industries installed capacities have been given in terms of output. Installed capacities were estimated by the agencies responsible for data collection, except in the case of sugar, whose capacities were estimated by the Development Council for the Sugar Industry.

31. The installed capacity of the sugar industry was previously calculated on the basis of the average working results of recovery and duration of production for the 1957/58 and 1958/59 seasons. As capacity assessed on this basis was found to be on the low side compared with the actual results, the Development Council for the Sugar Industry appointed an expert committee in 1961 to examine the question of reassessment of installed capacity. The Expert Committee made a study on the basis of average duration and recovery. The information for this study was obtained during the five years ending 1961/62. Based on the results of this study, the council recommended in 1962 that the installed capacity of the sugar industry be reassessed in terms of annual sugar production, taking into account licensed daily cane-crushing capacity reduced

to a 22-hour working day with the following averages for working days and recovery for the various regions in India

| | Average Working (Days) | Recovery of Days |
|--|------------------------------|---------------------|
| INDIAN PENINSULA | | |
| Other Peninsular, Bihar, Punjab, West Bengal, Assam, Rajasthan Madhya Pradesh and Orissa | 18 | 6.3 |
| INDIAN ISLANDS | | |
| Andaman and Nicobar | 18 | 6.3 |
| INDIAN STATES | | |
| WEST BENGAL | | |
| Calcutta, Durgam and Purba Division | 18 | 6.3 |
| ASSAM | | |
| Assam, Cachar and Khasi | 18 | 6.3 |

12. The Government recognize that the sugar industry mentioned in the preceding paragraph is an important one and various steps are being taken by the Government to improve its working conditions.

13. Further, the Government are taking steps to improve the working conditions of the workers in the sugar industry by providing them with adequate housing, medical facilities, and other amenities. The Government are also taking steps to improve the working conditions of the workers in the sugar industry by providing them with adequate housing, medical facilities, and other amenities.

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43. Since the industrial classification at the three-digit level adopted by most countries is broadly identical, the percentages of idle capacity in each industrial group could be combined by calculating the weighted arithmetic mean of the whole group. The weights for this purpose, as already stated above, may be the value-added data for the industry given by the Annual Survey of Industries.

44. This one set of figures for all industries will show the extent to which industrial capacity has been created in particular countries but is not utilized for one reason or another. This, in turn, will show the extent to which plant and equipment are lying idle or are unemployed. Steps could then be taken both by individual nations and by UNIDO to discover ways and means of utilizing this idle capacity in industry. Export promotion is one way to utilize this idle capacity in industry. Higher levels of production in particular lines for which there is demand at home is another way of liquidating it. In any case, a wider publicity of this type of data, both nationally and internationally, will focus the attention of individual governments, industrialists and the United Nations on the desirability of avoiding a waste of capital resources in developing and developed countries.

II CASE STUDIES OF CAPACITY MEASUREMENT IN SPECIFIC INDUSTRIES

45. In chapter I of this paper the concept of capacity has been discussed with reference to the data published in the Monthly Statistics of Production of Selected Industries of India. In this chapter the measurement of capacity as described by the Annual Survey of Industries will be discussed. The installed capacity of production is recorded in the ASI schedule.

46. The figures of installed capacity for industries referred to in chapter I are collected on a voluntary basis by the development wing of the Ministry of Commerce and Industry, now known as the Department of Technical Development, in the Ministry of Industrial Development and Company Affairs. This data has been published in the publication entitled Monthly Statistics of Production of Selected Industries of India since 1949.

47. The Central Technical Advisory Council on Statistics some time ago discussed the procedure involved in the computation of installed capacity and felt that there was a need for defining the concept and for procedure for fixing installed capacity figures for individual industries and for tabulating aggregate figures for each industry as a whole from the figures of installed capacity for individual factories. In the meantime, the development wing had felt the need for statutory collection of data on installed capacity. Accordingly, the scope of the Annual Survey of Industries (conducted under the Collection of Statistics Act of 1953) and of the rules framed thereunder was extended to include information on the installed capacity of Indian industries. For this purpose a working definition of the term "installed capacity of production" was formulated, and the basis of estimation laid down in consultation with the Department of Technical Development.

48. In the case of the first Annual Survey of Industries in 1959 considerable difficulties in collecting the figures of installed capacity from factories were experienced, particularly from those engaged in the manufacture of multi-products or in servicing activities. As the data collected apparently lacked accuracy, they were not compiled. Attempts were continued, however, to collect this information and arrive at a satisfactory measure of the productive capacity of Indian industries.

49. The object of this chapter is to present the results of the Annual Survey of Industries data in relation to the capacity of twelve industries selected for study. These are different groups of industries, illustrative of the estimation problems involved and yet manageable from the point of view of work-load for the purpose of the present study. The intention is that these results should in the first instance be properly evaluated, from the standpoints of both concept and methodology, and their usefulness judged and limitations brought out with a view to effecting improvement in future programmes of data collection.

50. The study of twelve industries is based on ASI data. The collection of data under the Annual Survey of Industries is from each factory. The data are furnished by individual units comprising factories employing 50 or more workers and using power, and those without power employing 100 or more workers. These factories are completely enumerated in the census part of the Annual Survey of Industries, and the remaining factories are surveyed on a probability sampling basis. The data in the census part of the survey are for 1964. The results obtained for the twelve industries are described below.

51. Under clause 7 of the Collection of Statistics Act of 1953, information contained in individual returns received from factories cannot be divulged or published. Data concerning the individual units cannot be published therefore.

Manufacture of cigarettes (Industry no. 220.3)^{3/}

52. This industry had ten units in the census sector in 1964. All ten units reported capacity figures, but three units gave no reason for the non-utilization of their idle capacity. One unit reported that its idle capacity was caused by a shortage of raw materials. The main raw materials of the cigarette industry are tobacco of the right type and specification, essence and flavour, and cigarette paper. For the purpose of packing cigarettes, raw materials such as cellophane paper, aluminium foil and carton paper or cardboard are required. Other raw materials are tissue paper, newspaper paper, paper for labels, tins and wooden cases. An investigation can be made to determine whether the supply of these raw materials would enable the units to produce up to capacity.

^{3/} Industry numbers correspond to listings in the International Standard Industrial Classification.

which determining exactly what particular item is holding up production and whether it is indigenously available or must be imported. In the event that it is not locally available it may be the lack of foreign exchange necessary for imports that is holding up production.

An interesting fact which has come to light in this industry is that in the past several years a number of items which were imported from the United States and the production of which had been discontinued in the United States, have been imported from other countries. These items were imported from the United States and the production of which had been discontinued in the United States, have been imported from other countries. These items were imported from the United States and the production of which had been discontinued in the United States, have been imported from other countries.

The fact that these items were imported from other countries is a clear indication that the United States is not producing these items in sufficient quantities to meet the demand. This is a clear indication that the United States is not producing these items in sufficient quantities to meet the demand. This is a clear indication that the United States is not producing these items in sufficient quantities to meet the demand. This is a clear indication that the United States is not producing these items in sufficient quantities to meet the demand.

CONCLUSION

The above information indicates that the United States is not producing these items in sufficient quantities to meet the demand. This is a clear indication that the United States is not producing these items in sufficient quantities to meet the demand. This is a clear indication that the United States is not producing these items in sufficient quantities to meet the demand. This is a clear indication that the United States is not producing these items in sufficient quantities to meet the demand.

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62. Of the ten units, one was working to full capacity, but there was idle capacity in the remaining nine units. Two factories did not give reasons for the existence of idle capacity. Five stated that idle capacity resulted from accumulation of stock. One unit claimed that idle capacity was caused by a shortage of raw material and another stated that it was a result of insufficient transport facilities, in addition to accumulation of stock. One unit stated that idle capacity resulted from other unspecified causes.

63. The main inputs for the production of sheet and plate glass are sand, soda ash, sodium sulphate, dolomite, arsenic, cullets, marble powder, felspar, limestone, magnesite, barytes, sodium nitrate, selenium and cobalt. Other raw materials used in this industry are sawdust, coal powder and wire mesh. Some of these raw materials are imported and it is therefore important to determine whether it is the non-availability of indigenous raw materials that is hampering production or whether the difficulty lies in a lack of the foreign exchange necessary to import the required raw materials.

64. Most of the units stated that their idle capacity was a result of accumulation of stock. This means that there is not enough demand for their products in the domestic market. Therefore, the sheet and plate glass industry is one of those whose production can be expanded if export markets are discovered.

65. Regarding the raw materials of this industry, it is seen that most of the units mentioned in the above table have said that only one unit worked at a high capacity. This is due to the fact that the raw materials are not available in this industry, and the capacity cannot be fully utilized.

66. Sheet and plate glass are used in a wide range of applications, in the automobile, aircraft, and other industries. It can also be used in the construction of buildings, and in the production of other glass products. The demand for sheet and plate glass is increasing rapidly, and it is expected that the demand will continue to grow in the future. It is therefore important to ensure that the raw materials for this industry are available in sufficient quantities to meet the demand.

67. The demand for sheet and plate glass is increasing rapidly, and it is expected that the demand will continue to grow in the future. It is therefore important to ensure that the raw materials for this industry are available in sufficient quantities to meet the demand.

Inorganic fertilizers (Industry no. 311-1.1)

68. This group includes superphosphates, ammonium phosphates, sulphuric acid, mixed fertilizers, ammonium sulphate, double salt, urea, ammonium chloride and calcium nitrate. The most important product in this group is superphosphate.

69. Twenty-four units in this industry submitted returns. One unit had not yet begun production at the time of the survey, and another submitted a blank return. Although actual production for mixed fertilizers was reported, particulars of assessed capacity were not given in five cases. The situation was the same in the case of sulphuric acid, where assessment of capacity was not given in four cases. In the case of ammonium sulphate, one unit did not report assessed capacity. Capacity and production for the fertilizer industry are given in the Monthly Statistics of Production of Selected Industries of India in terms of N content for nitrogenous fertilizers and in terms of P_2O_5 content for phosphatic fertilizers. However, in the Annual Survey of Industries the basis for assessment of capacity and production is the actual production, the unit of production being the metric ton in all cases.

70. Idle capacity existed in most units. Fourteen of the twenty-two factories claimed that a shortage of raw materials was partly or indirectly responsible for idle capacity. Accumulation of stock was wholly or partly responsible for idle capacity in four cases. Lack of demand was stated as the reason by ten factories. Two other units claimed a shortage of fuel and power, including power cut-off and power breakdown, as the reason for their idle capacity. One factory gave no explanation of its excess capacity; another claimed to be in the initial stages of production and was for that reason not able to utilize its full capacity. One unit stated that its processing was in a state that did not permit full utilization of installed capacity; in other words, installed capacity would not be fully utilized for technical reasons.

71. The main inputs for the production of inorganic fertilizers are rock phosphate, sulphur, urea, nitrate of potash, caustic soda, bone powder, ammonium sulphate, gypsum, soda ash, sodium sulphate, sulphuric acid, bentonite, and calcium nitrate. A study should be made to determine which of these particular raw materials are in short supply in a particular unit and to what extent. If the

lack of imported raw materials is standing in the way of utilization of installed capacity, foreign exchange must be used to procure the necessary supplies.

12. One unit in this industry was working on a single-shift basis. Three units were working on a double-shift basis. One unit gave no information in this respect. The remaining units were working on a three-shift basis. The three-shift basis appears, therefore, to be the most desirable arrangement for units in this industry.

13. The number of working days for the purpose of assessment of capacity and number of days actually worked generally agree. In some cases the number of shifts was greater, apparently because these are continuous process industries. In one case the number of days worked by the unit was only 36, while capacity assessment was based on 365 working days. The unit in question is probably confronted with special problems requiring special consideration. Where the number of actual working days is less than the number of days assumed for capacity assessment, a shortage of raw material usually exists. This is in all probability the reason why many of the factories worked for a smaller number of days during the survey year.

14. Some of the units are producing subsidiary products consisting of sulphuric acid, sulphur dioxide, aluminium sulphate and intermediate products such as anhydrous ammonia, chloro sulphuric acid, nitric acid, green coppras, sodium sulphide, ammonium, alum and H.S.R. spirit acid and soda salt. Heavy water and ferric alum, as well as sanitary ware, are produced in one case.

15. Summing up, it would seem that shortage of raw materials, shortage of power, lack of demand and accumulation of stock are the main causes of idle capacity in this industry. The possibility of exporting these chemical items must be carefully considered in consultation with the export interests concerned. Basic chemical industries in this country are developing at present, and, although sufficient progress has been made in this direction, the export potential of these basic chemicals and products requires further examination by the exporters of chemicals and chemical products, by their associations and by the Government. The industry could be made to work to full capacity if raw materials could be provided and export markets discovered.

Air-conditioners and refrigerators (Industry no. 360.11.3)

76. This industry consisted of 23 units (including 6 servicing units) in the census sector in 1964. Of these, two units manufactured spare parts only, consisting of S.S. Tanks and condensers in one unit, and panels, trays and ducting in the other. Capacity, production, spare capacity and number of shifts were given by both of these units. Several other units also specified capacity and production figures with respect to the same or other spare parts. As the number of spare parts for refrigerators or air-conditioners is quite large, no attempt was made to tabulate the particulars of capacity assessed, production and spare capacity for each spare part.
77. The main products of this industry are refrigerators (domestic); commercial, industrial, packaged air-conditioners; room air-conditioners; cooling towers; air-conditioners; humidifiers; water-coolers; air-compressors; deep freezers; window water-coolers/air-conditioners; and industrial blowers. As stated earlier, spare parts for air-conditioning and refrigerating machinery were also manufactured by certain units manufacturing the above-mentioned main products.
78. The statistical unit of capacity and production in most cases in this industry is "number". Six factories in this industry were engaged in servicing, and for this reason their assessed capacity, actual production and spare capacity figures were not available. All seventeen remaining units reported assessed capacity, actual production and spare capacity. In all cases there was spare capacity in one or more lines of production.
79. Twelve units stated that spare capacity in their case was caused by a shortage of raw materials. Four units claimed lack of demand as a cause. Accumulation of stock was specified in four cases. Shortage of labour was blamed for idle capacity in one case. Shortage of power and lack of transport facilities and working capital was cited as additional causes of idle capacity in certain units in this industry.
80. The main inputs used by this industry are steel sheets, copper sheets and wires, brass, aluminium, structural iron, welding rods, tubes, M.S. block tubes, plastic sheet, glass wool, evaporator coil, electric motors, coal tar, iron tubing, boxes and rods, castings, iron plates, sheets and strips, paints and varnishes, copper tubings, solder alloys and flux, ball and roller bearings, G.I. pipes, super enamel copper wire, zinc-coated sheets, compressors, condensers,

stainless steels, oxygen and acetylene gas, steel strips, fibre glass and perspex sheets and strips. Small amounts of some of these raw materials are imported, and the question of whether the lack of imported materials is holding up production must be settled.

81. The products of this industry are used both in the home and in industrial establishments. Indian prices of these products are, however, rather high. If they are to be successfully exported, these products must not only conform to international quality standards but must also be competitive on the international market.

82. The number of shifts and the number of days worked per year varied considerably within this industry. Some factories worked on a single- or double-shift basis. One unit worked on a three-shift basis. The number of working days also varied, although most of the factories generally worked about 300 days during the year.

83. The end-product of this industry should be made cheaper in the internal as well as in the international market. This would stimulate demand, eliminate accumulation of stock and ensure the utilization of idle capacity.

Pulp, paper and paper board, including newsprint
(Industry no. 271.1, 271.2, 271.3)

84. This industry consisted of 39 units in the census sector in 1964. In addition, there were three other units, two of which stated that their machinery was old and was subject to frequent breakdown, making an assessment of installed capacity, production and idle capacity impossible. The third factory was undertaking job work and therefore did not record assessed capacity, production and spare capacity.

85. This industry manufactures paper of all kinds, including carbon, stencil, filter, tissue and packing paper, and newsprint. There is one factory manufacturing rayon grade pulp.

86. The statistical unit of capacity and production in most cases in this industry is the metric ton. In one case, however, the statistical unit is boxes. Their contents can be determined by converting the figures into metric tons for the purpose of statistical analysis.

87. The industry is capable of meeting its requirements for power, although in some cases the factories were working on a single shift basis. The working days varied from 120 to 200, but this could be increased and more production can be carried on year-round on a continuous basis.

88. Idle capacity exists in all but one case. Shortage of raw materials was stated as the cause for idle capacity in 17 cases out of 21. Lack of demand was cited by four factories. One factory stated that the last year of the survey year was its first year of production. Lack of power supply was cited as a reason in three cases and labour shortage in two others. Two factories stated that production was in the working stages. Three factories stated that non-utilization of full capacity was caused by machinery breakdowns.

89. One factory stated that non-utilization of full capacity could be explained by the policy of its board of directors formulating initialisation of units in different places over expansion at one location. This is a case which requires careful scrutiny since this kind seems to encourage the idle capacity that should be prevented by all possible means.

90. Lack of transport facilities and working capital was discussed as the cause of idle capacity in one case; shortage of imported spare parts required to maintain the efficiency of plant in another. Some units have given no reason for their idle capacity. One of these stated that its machinery is old. Some units reported that capacity exists for ribbons and typewriting ink. One factory also manufactures stamp pads and files; another makes carbonates and one unit sulphur pulp and kraft pulp. In one case capacity exists for ribbons, stamp pads and paper roll.

91. The important raw materials of this industry are bamboo, wood pulp, pulp wood, rags, waste paper, jute waste and hessian cuttings, straw, carbonising tissue, cloth etc. Some chemical items are also used as inputs by this industry. They include caustic soda, soda ash, sodium sulphate, bleaching powder and other whitening agents, lime, common salt, china clay, rosin, zinc ferrous, chlorine, dyes and acids. Some of these raw materials are imported and a shortage of them can cause idle capacity in this industry. The cause of idle capacity in each unit should be determined and eliminated.

92. The products of this industry can be exported. Indian-made paper is of good quality, and, if it were also competitive in price, it could be exported.

Page 2

TO THE HONORABLE MEMBERS OF THE HOUSE OF REPRESENTATIVES

COMMISSIONERS OF THE GENERAL LAND OFFICE

Dear Sirs: I have the honor to acknowledge the receipt of your letter of the 10th inst. in relation to the application of the [redacted] for a lease of the [redacted] and in reply to inform you that the same has been referred to the [redacted] for their consideration. The [redacted] have advised that they are in favor of the application and that they will recommend the same to the [redacted] for their approval. I am, Sir, very respectfully,
Yours obedient servant,
[redacted]

I have the honor to acknowledge the receipt of your letter of the 15th inst. in relation to the application of the [redacted] for a lease of the [redacted] and in reply to inform you that the same has been referred to the [redacted] for their consideration. The [redacted] have advised that they are in favor of the application and that they will recommend the same to the [redacted] for their approval. I am, Sir, very respectfully,
Yours obedient servant,
[redacted]

I have the honor to acknowledge the receipt of your letter of the 20th inst. in relation to the application of the [redacted] for a lease of the [redacted] and in reply to inform you that the same has been referred to the [redacted] for their consideration. The [redacted] have advised that they are in favor of the application and that they will recommend the same to the [redacted] for their approval. I am, Sir, very respectfully,
Yours obedient servant,
[redacted]

I have the honor to acknowledge the receipt of your letter of the 25th inst. in relation to the application of the [redacted] for a lease of the [redacted] and in reply to inform you that the same has been referred to the [redacted] for their consideration. The [redacted] have advised that they are in favor of the application and that they will recommend the same to the [redacted] for their approval. I am, Sir, very respectfully,
Yours obedient servant,
[redacted]

101. Cotton textiles produced in India are among the finest in the world and their prices are competitive. The hand-loom products of India are of good quality and are exported to the United States, the United Kingdom and other Western European markets. The tapestry goods manufactured by the Indian textile industry and Indian hand-loom products such as bleeding madras are well known products which are sold abroad. There is still considerable scope for exports in this field, and both trade and industry, as well as the Government of India, are making great efforts to promote exports of these products to foreign countries.

Jute textiles (Industry no. 231.2)

102. The total number of schedules pertaining to this industry in the census sector of the Annual Survey of Industries of 1964 was 90, but only a sample of 20 per cent was to be selected for examination in connexion with this study. However, the total sample was spread over the states in proportion to employment in this industry, selecting at least one unit from each state, and this led to the selection of 22 units for study. The bulk of the sample (seventeen units) came from West Bengal alone, which means that 93 per cent of this state's labour force is employed in this industry. One unit was selected from each of the remaining five states. The percentage of employment in each state has been multiplied by eighteen to determine the number of units in the individual states.

103. The main items produced by the jute textile industry are hessian cloth and bags and sacking cloth and bags. There are also subsidiary products such as carpet backing cloth, jute mattresses, twines, ropes, canvas, wool packs, D.W. tarpaulins, cotton backing cloth and jute carpets.

104. The installed capacity of the major products was reported in the following three ways:

- (a) Number of looms/spindles;
- (b) Number of looms/spindles.shifts;
- (c) Number of looms/spindles.days.

Production was reported in metric tons and thousands of metres for the main products. The metric ton is the statistical unit for other products. The conversion factor to judge whether capacity is fully utilized was not available and judgement was therefore based on the statement of the units themselves.

105. The industry is capable of working on a three-shift basis, although there are units that worked on a one- or two-shift basis during the survey year. The number of working days varied from 261 to 271. Most of the factories however worked for 300 or slightly more days in the year.
106. In 11 cases out of 22 spare capacity was blamed on a shortage of raw materials. Shortage of fuel and power was stated as the cause in seven cases. Labour trouble was held responsible for idle capacity in three cases and accumulation of stock was mentioned by six units. Lack of marketing facilities was cited in five cases. Five units stated that owing to economic reasons their capacity was not fully utilized. Lack of transport facilities was mentioned by three units, lack of demand by two units, and shortage of labour by three units. Four units have not indicated any reasons for non-utilization of idle capacity.
107. Jute textiles is a major Indian industry, and the export of jute goods is India's largest source of foreign exchange. The total production of jute goods in this country was 1,772,000 tons in 1954.
108. There are certain problems confronting this industry. These problems concern the growing of jute as well as its import from abroad, both apart from the actual manufacture of jute goods. Since jute is a crop competing with rice, it was grown on only 374,000 acres of land during 1954/55. This was necessary to maintain the level of essential food (viz. rice) production.
109. Another problem of this industry is that India's jute mill machinery is old and requires modernization. Special loans are being granted by the Government of India to the jute mills to enable them to purchase modern machinery in order to improve their position in the international market. Owing to a shortage of raw material, the bulk of which is imported from Pakistan, jute mill production must be drastically controlled. The Government frequently orders sealing and unsealing of licenses/spindles by jute mills as their production does not come to a standstill owing to lack of raw material.
110. In the field of exports Indian jute goods face fierce competition from Pakistan. The production of substitutes such as paper and plastic bags is also a factor to be taken into account.
111. The industry implements most of the directives of the Government in order to maintain its position in internal and external markets. It continues to work

The first paragraph discusses the importance of maintaining accurate records in a business setting. It highlights how proper record-keeping can help in identifying trends, resolving disputes, and ensuring compliance with legal requirements. The text emphasizes that records should be kept for a sufficient period to allow for a thorough review if necessary.

The second paragraph focuses on the role of technology in modern record management. It mentions how digital storage solutions have made it easier to access and share information across different departments. However, it also notes the need for robust security measures to protect sensitive data from unauthorized access or loss.

The third paragraph addresses the challenges of data retention and disposal. It explains that businesses must have clear policies on how long to keep records and when to safely delete them. This process is crucial for maintaining data privacy and reducing the risk of information leakage.

The fourth paragraph discusses the importance of regular audits and reviews of record-keeping practices. It suggests that businesses should periodically assess their current methods to ensure they are still effective and compliant with the latest regulations. This helps in identifying areas for improvement and preventing potential issues.

The fifth paragraph covers the legal implications of record management. It notes that various laws and regulations govern how records are handled, particularly in industries like healthcare and finance. Failure to adhere to these laws can result in significant penalties and damage to the organization's reputation.

The sixth paragraph provides a summary of the key points discussed in the document. It reiterates the importance of a proactive approach to record management, emphasizing the need for clear policies, the use of technology, and regular monitoring to ensure the integrity and security of all business records.

MEMORANDUM FOR THE RECORD

RE: [Illegible]

1. [Illegible]

2. [Illegible]

3. [Illegible]

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27. [Illegible]

... of very large, including ...

... of the ...

... of the ...

... of all types, ...

... is completely to semi- ...

125. In the manufacture of complete motor vehicles, four units out of six reported idle capacity. All four units stated that idle capacity was caused by a shortage of raw materials. The other two units reported a shortage of working capital. However, if the inventories owned by these industry are reported, and any of the raw materials reported by the units are adequate for full capacity, the utilization of their complete motor vehicle production.

126. The industry is reported to be working on a three-shift basis, with only three units stated to have done so, while the others worked on a double-shift basis. Apparently, these units could also work on a three-shift basis.

127. There was also some capacity in the body-building sector of the industry. The reasons given were were shortage of raw materials and lack of demand. Labour shortage was also mentioned as a reason. One unit stated that it was doing good work, and apparently could not utilize its full capacity because there were no orders. The shortage of labour was also mentioned as one reason for the cause of idle capacity.

128. The third sector of the industry is the manufacture of spare parts and accessories. The reasons for non-utilization of capacity here was shortage of raw materials in several cases. In one case there was no spare capacity. In another, accumulation of stock was blamed for idle capacity.

129. Most of the units working on the building of bodies or on producing accessories and parts worked on a single-shift basis, although there were one or two units working on a double-shift basis and one working on a three-shift basis. All the units could be made to work on a three-shift basis if sufficient raw materials were available and other constraints on production were removed. The number of working days varies from the minimum of 250 to as high as 334 in one case.

130. With respect to the export potential of the industry, it might be stated that complete automobiles produced in India are high-priced compared to similar cars manufactured in other countries. Indian cars cannot, therefore, be exported unless their prices are drastically reduced by increasing the scale of operations of all the assemblers. Spare parts and accessories produced in India do not conform to the quality standards attained by the developed countries. These parts are easily worn out, although they are competitive in price. For technical reasons the spare parts produced in India must conform to international specifications as the car population in India consists of a mixed variety.

1470.837
Page 10

13. A large number of imported cars are still on the roads in India, and they have to be serviced by garages from domestically produced spare parts, because imported spare parts are quite expensive and are sometimes not available. If automotive cars produced locally and spare part quality could be improved, such these vehicles could be exported and earn valuable foreign exchange for India.

Auto Industry (Industry no. 207.1)

(1) The main product of this industry is sugar and the main by-product is molasses. There were 8,100 vehicles in the revenue sector of this industry in 1964 and, in a large part, these vehicles were of the vintage around 1950. However, they are still running strong. The 1970 census shows that some parts of the vintage of about 1960-61 are in use, with a number of the old vintage still in use in some parts of the country.

(2) The main product of this industry is sugar and the main by-product is molasses. There were 8,100 vehicles in the revenue sector of this industry in 1964 and, in a large part, these vehicles were of the vintage around 1950. However, they are still running strong. The 1970 census shows that some parts of the vintage of about 1960-61 are in use, with a number of the old vintage still in use in some parts of the country.

(3) It is found that the number of vehicles in the revenue sector of this industry has increased considerably since 1964. This is because of the increase in the number of vehicles in the revenue sector of this industry. The increase in the number of vehicles in the revenue sector of this industry is due to the increase in the number of vehicles in the revenue sector of this industry. The increase in the number of vehicles in the revenue sector of this industry is due to the increase in the number of vehicles in the revenue sector of this industry.

(4) The number of vehicles in the revenue sector of this industry has increased considerably since 1964. This is because of the increase in the number of vehicles in the revenue sector of this industry. The increase in the number of vehicles in the revenue sector of this industry is due to the increase in the number of vehicles in the revenue sector of this industry.

15. Sugar production can be increased by the production of more sugar-cane. Also important is an adequate supply of the other raw materials required, even if this necessitates making available a little more foreign exchange. Similarly, facilities for the importation of spare parts for occasional machinery repairs must also be provided, although the industry did not complain about this matter in the survey. The unit reported that the inferior quality of raw material led to this necessity. Two units blamed the shortage of working capital. The unit stated that the cause of this necessity was machinery breakdown, while these referred to transport difficulties. The unit complained of labour shortages.

16. The total production of sugar depends on the amount of juice extracted from sugar-cane and that figure varies widely from estate to estate. The percentage of economy increasingly determined the level of sugar production by the units in this industry.

17. These investigations are necessary to maintain a higher level of output, although the amount of output is reduced in many cases. The amount of working days in the industry is... (The following text is extremely faint and largely illegible due to low contrast and noise in the scan. It appears to contain several paragraphs of detailed analysis or data.)

18. The following are the main factors... (This section also contains faint, illegible text, likely a summary or list of findings.)

140. The peculiarity of this industry is that it is a multi-product industry. The various types of dyes that are manufactured are known as vat dyes, solubilized vat dyes, whitening agents (e.g. Tinopal), naphthol, azodyes, sulphur black, fast colour bases, stabilized azoics, B.O.N. acids, ultra-marine blue, solubilized azoics, myrobalan extract, meta nitro para toluidine, colours of dyes, sulphur nitric acid, direct dyes other than congo red, basic dyes other than azo dyes, lake pigments, fast developing salts, oil soluble dyes, binders, dye stuffs, textile auxiliaries and products, ink blue, methylene blue, methyl violet, rhodamine, magenta, auramine, nigroline, prussian blue, rapid fast, rapidogen bases, direct dyes, fast colour bases, sulphur dyes, other acid dyes, acid azodyes, spirit soluble dyes and pigments, mixing aniline dry dyes etc. Some of these items could be grouped together on the basis of their chemical classification although this was not done by the units. In the Annual Survey of Industries as many as 64 inputs for this industry have been distinguished, but it is unnecessary to enumerate them here. Several of these basic material inputs, including chemicals and intermediates, are imported.

141. In a case of this kind there is an interesting problem involved in the assessment of capacity and in the reporting of production. The plant and equipment installed for the production of various dye-stuffs is not specific to the production of a particular product; it has alternative uses. Therefore, the capacity stated by the units does not refer to the theoretical capacity on the basis of which capacity should really be assessed. Instead, assessment has been based on the production pattern of the particular unit. Indeed, it might be stated that production of different products and different combinations of products will lead to a different total capacity in each of these units. The best way to assess capacity in such cases would naturally be to define capacity in terms of one or more basic products and to reduce both production and capacity to that basis. This seems to be the most accurate way to assess capacity in this kind of industry, but this is a technical matter to be handled by chemists, experts conversant with the technique of dye production.

142. The industry is capable of working on a three-shift basis, although five units are reported to be capable of three shifts and one unit worked on the basis of two shifts. Considering the resources for spare capacity given by the units, it was found that a shortage of spare capacity was responsible for idle capacity in 1958-59. Shortage of working capital was mentioned by five units and management difficulties by two units. Accumulation of stock was blamed for idle

capacity by two units. Lack of demand was cited by three units, and a shortage of fuel and power was the cause in two other cases. Two units complained of a shortage of labour. Some units stated that their idle capacity was the result of miscellaneous causes. One unit had no idle capacity to report.

143. Only a short time ago India was an importer of dye-stuffs on a large scale. The domestic dye-stuff industry has developed only recently. Spare capacity can be utilized for the purpose of exports only if the dye-stuffs made in India conform to international quality standards and are competitive in price on the international market. Indian dye-stuffs are at present pitifully good in quality and are being constantly improved. Sales on the international market could be promoted by an increase in the scale of production and by promotion of sales and market research in foreign countries in this field.

CONFIDENTIAL

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- 1. The purpose of this document is to provide you with the necessary information to understand the current situation.
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CONFIDENTIAL - SECURITY INFORMATION

1. The purpose of this document is to provide a comprehensive overview of the current status of the project. This includes a detailed analysis of the data collected to date, as well as a comparison of the results against the initial objectives.

2. The data collected over the past six months has shown a significant increase in the number of users, which is a positive indicator of the project's success. However, there are several areas where further improvement is needed, particularly in the area of user interface design and system performance.

3. The following table provides a summary of the key findings from the data analysis. It shows that while the overall trend is positive, there are still some challenges that need to be addressed in order to fully meet the project's goals.

4. In order to address these challenges, it is recommended that the following actions be taken: first, a redesign of the user interface should be implemented to improve the overall user experience; second, the system's performance should be optimized to ensure that it can handle the increased number of users; and finally, a comprehensive training program should be developed to help users get the most out of the system.

5. The project team is committed to ensuring that all of these recommendations are implemented as quickly as possible, and to providing regular updates on the progress of the project. We believe that with the right approach, we can achieve the project's goals and provide a high-quality service to our users.

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151. There are 262 industrial groups/sub-groups, and if an attempt were made to analyse all the schedules of the census sector giving this data, the task would be very great indeed. However, the study of the sample of twelve industries has led to some interesting conclusions. An examination of the monthly production report sent by the major industrial units to the Director-General of Technical Development, the District Commissioner and other administrative authorities corroborates these findings.

152. The single factor responsible for the bulk of idle capacity in this country is the shortage of industrial raw materials, both indigenous and imported. Chapter II gives the various reasons recorded in the schedules, and from these it can be seen that the main reasons advanced for non-utilization of capacity are import restrictions on raw materials; uncertain delivery, high cost and poor quality of these materials; non-availability of the materials from indigenous sources; and the high cost of transport. In some cases the quality of indigenous raw materials, compared with imports, is so poor that the cost of the finished product is increased if domestic raw materials are used.

153. Imports of industrial groups cannot be discussed individually in this paper, but in summary it may be stated that the supply of raw materials such as iron and steel, special steel, alloy steels and non-ferrous metals including copper, aluminium, zinc and lead is particularly unsatisfactory. The non-availability or restricted availability of basic chemicals and other materials is also one of the reasons of partial non-utilization of industrial capacity.

154. The main parameter available for the study of under-utilization of capacity is the percentage of idle capacity as recorded from industrial units in accordance with the Monthly Statistics of Industries. The Monthly Statistics of Industries of Malaya, Singapore and Sarawak, a statistical series, is the basis of availability of data on under-utilization of capacity from large industrial units. The reasons for the under-utilization of capacity in these units have been summarized and are given in the following table.

155. The amount of foreign exchange allocated to industry has increased during the last eight years. In addition, with the increasing number of industrial units, the foreign exchange allocated for imported raw materials of direct interest to major and medium industries has been reduced. This is not only partially the result of a greater indigenous availability of raw materials, but is also

large measure also the result of India's unfavorable foreign exchange situation. However, whereas the number of import licenses issued to actual users has increased in number over time, the value of such licenses has fallen. The conclusions emerge from this analysis:

- (a) Indigenous availability of raw materials and components for the establishment of new industries, particularly in the industries mentioned in the general training programme, and the expansion of existing plants have certainly improved in the past few years, but are still far from being fully utilized.
- (b) The import of components, spares and accessories required by industry is meeting its needs. The capacity of the plants already installed and capacity already reserved of these plants is being utilized.

156. This second conclusion is a point brought out by many representatives at the meetings of the Import and Export Agency Committee of the Government of India and Industry. It has also been emphasized by the Member for Industry of the Government of India, and has been pointed out by several large-scale industrialists, including the Director General of Industries of India. The Government of India has recognized that goals of import substitution are being permitted, and that indigenous capacity should be utilized to the maximum before further capacity is reserved for these purposes. This has enabled the Planning Commission to study the problem in the present context.

157. The study of the Import and Export Agency Committee and the Council of Applied Economic Research on the subject of import substitution of India's capacity to produce of raw materials and components and regional planning committee have demonstrated that India has a considerable capacity for additional manufacturing capacity. The capacity is already available. Perhaps the only reason for the delay in the use of foreign exchange for the purchase of raw materials is that the present policy of import substitution is a general one and not a specific one for the establishment of plants.

158. The report has shown that the Indian Government is not utilizing its capacity to the maximum. It is suggested that the Government should consider the possibility of expanding its capacity to produce raw materials and components for the establishment of plants. This will be a step towards the realization of the goal of import substitution of India's capacity to produce raw materials and components for the establishment of plants.

The first part of the document discusses the importance of maintaining accurate records of all transactions. It emphasizes that every entry must be supported by a valid receipt or invoice. This ensures transparency and allows for easy auditing of the accounts. The text also mentions that regular reconciliations should be performed to identify any discrepancies between the books and the bank statements.

In addition, it is noted that the accounting system should be designed to be user-friendly and efficient. This will help in minimizing errors and saving time. The document also touches upon the need for proper segregation of duties to prevent fraud and ensure the integrity of the financial data.

Furthermore, the importance of staying up-to-date with the latest accounting standards and regulations is highlighted. This is crucial for ensuring compliance and avoiding any penalties or legal issues.

The document concludes by stating that a robust accounting system is essential for the long-term success and growth of any business. It encourages the implementation of best practices and the use of modern accounting software to streamline the process.

Overall, the document provides a comprehensive overview of the key aspects of accounting and offers practical advice for businesses looking to improve their financial management.

It is hoped that this information will be helpful and that businesses will take the necessary steps to ensure their accounting practices are sound and reliable.

Thank you for your attention and interest in this document. We are confident that the information provided here will be of great value to you.

Best regards,
[Name]

[Address]
[City, State, Zip]

[Phone Number]
[Email Address]

[Company Name]

RECOMMENDATIONS FOR PROMOTION OF EXPORTS

1. The government should... to increase utilization of 1976...
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- (a) The government should... of industry... should...
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- (b) The government should... regarding...
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- (e) The government should...
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- (g) The government should... standardized and international...
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- (h) The government should... to reduce the cost per unit of...
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- (i) The government should... in those areas where idle capacity...
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to...

IV EXPORT PROMOTION AND THE UTILIZATION OF IDLE CAPACITY

163. In the beginning the export policy of the Government of India was to export all produce in excess of that required to satisfy the internal requirements of the country. The emphasis was on export promotion, which was necessitated by the requirements of the five year plan for foreign exchange. Expenditures were necessary to promote the development of new industries and to maintain imports to supply existing industries. The measures taken to promote exports are summarized briefly below.

Institutional arrangements

164. A Directorate of Export Promotion was established in the Ministry of Commerce and Industry. A number of export promotion councils were established to supervise the export of various commodities and several commodity boards were set up. The latter include the Tea Board, Coffee Board, Silk Board etc.

165. The State Trading Corporation was established in 1956 and was later subdivided into two parts - the State Trading Corporation and the Minerals and Metals Trading Corporation. An Institute of Foreign Trade was established to provide training in the techniques of export promotion for managers of business firms, industrialists and government officers. A Board of Trade was established in the Ministry of Commerce and Industry. This was a high-level advisory body particularly concerned with the promotion of exports.

Incentives for exports

166. A number of measures which may be described as incentives for the purpose of export promotion were also adopted. These are as follows:

- (a) Export duties were either abolished or reduced in order to encourage the export of a number of commodities.
- (b) Customs duties on raw materials required for the manufacture of the exported products were wholly refunded to exporters furnishing proof of export of goods. This is known as the "drawback" of export duty.
- (c) Traders were in some cases permitted to export goods at lower prices, while raising the internal prices of those commodities correspondingly in order to avoid any loss in over-all sales.

Other measures

167. In order to protect exporters from losses, an organization known as the Export Credit and Guarantee Corporation was established at Bombay. This organization was to insure the risk to which an exporter is exposed either by default by foreign buyers or otherwise. India began to participate in a large number of international exhibitions and fairs where Indian products could be displayed and sold to foreign buyers. In addition, a large number of show-rooms were established in many parts of the world to popularise Indian products. These establishments or trade centres not only exhibit the Indian products, but also encourage export promotion by booking orders and by bringing together foreign importers and Indian exporters. India herself organized a number of industrial exhibitions in order to popularise the products of Indian agriculture and industry.

168. The Indian Missions abroad also participated in export promotion by increasing the activities of their trade sections and by undertaking market research and studies of foreign markets with reference to the particular commodities produced in their own areas.

169. Delegations of officials and businessmen are sponsored to enable them to tell foreign buyers about various Indian products. The delegations of businessmen have invariably succeeded in booking orders for large quantities, but official delegations have also been very successful in booking orders for particular commodities.

170. In those areas where India lacks technical know-how or capital resources, foreign collaboration has not only been permitted, but encouraged as well. A well-defined policy of foreign collaboration has been developed by the Government of India, under which the foreign investor is not only assured of the safety of his capital, but is also given the right to his profits and royalties from his collaboration.

171. Incentives have been provided to the foreign investor, and the inflow of foreign private capital is encouraged in several fields.

172. The services of foreign experts have been freely utilized for industrial development and also in various other fields.

173. Trade agreements and treaties have been entered into with various countries under the aegis of ITC and of several international conferences arranged by the United Nations. Special trade agreements have been concluded with several countries.

12.25

11. It has been stated that the Indian export was controlled in an attempt to maintain a price ceiling. However going into the details of the results, it can be stated that Indian exports have not risen to the expected level. The state of affairs have been such because the exports are controlled. For this reason they have not risen to the expected level. Furthermore, as a result of the heavy control of the export, the Indian export has not risen to the expected level. It is also stated that the Indian export has not risen to the expected level.

12. It has been stated that the utilization of excess capacity has been controlled in an attempt to maintain a price ceiling. However going into the details of the results, it can be stated that Indian exports have not risen to the expected level. The state of affairs have been such because the exports are controlled. For this reason they have not risen to the expected level. Furthermore, as a result of the heavy control of the export, the Indian export has not risen to the expected level. It is also stated that the Indian export has not risen to the expected level.

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178. Industrial policy in India contains the following main provisions:

- (a) Industries that are export-oriented are allowed to set up free zones and foreign investments.
- (b) Industries that are export-oriented are encouraged to establish new units of their own, the production of export goods.
- (c) Industries that are export-oriented are permitted to set up, and thus an absence of their products, are encouraged to produce their products in order to meet the requirements of the market.

179. A good way to see what the industrial policy has done for small-scale and cottage industries in this country is to see these industries are labour-intensive and private enterprise in their nature, they are allowed to grow in those industries in which the government is not interested. In some of the important areas where the government is interested, small-scale industries have been given the same amount of financial assistance as large industries. Substantial sums of money were allocated to small-scale industries during the period of the first three plans. The Fourth Plan also provides for the continuation of this policy of encouragement to the small-scale sector.

180. For a long time planning in India has been carried on by fixing physical targets of production and by including plans of the state governments in the structure of planning. An evaluation of the utilization of capacity created has not been attempted on a large scale. Indeed, in the early stages of planning any project included in the plan was abandoned after its technical details had been worked out.

181. This type of physical planning under specified targets has resulted in an imbalance in the economy. Capacity has been created in certain sectors that is not required to satisfy the current needs of effective demand. In certain other sectors, however, additional capacity is needed. These imbalances for policy are trying to rectify these imbalances in the economy through the Fourth Five-Year Plan, as well as through subsequent plans. The Government of India has recognized that if the imbalances created by capacity that has already been created than it is to be met, more capacity in the same sectors. Indeed, emphasis on substitution of the for the utilization of the capacity is necessary, and various policies have already been introduced in this connection.

182. In order to utilize the installed capacity for the production of goods for export the following measures are absolutely necessary:

- (a) **Implementation and concrete stipulations of equality and its**
the Government, and along the economic policy of industry,
agricultural and other sectors, and the national budget.
- (b) **There shall be no discrimination against any citizen in the matter of**
employment, remuneration, and other conditions of service. **The**
Government shall ensure that the minimum wages fixed by it shall be
paid to all workers engaged in any industry or occupation, and shall
also ensure that the minimum wages fixed by it shall be paid to all
workers engaged in any industry or occupation.
- (c) **There shall be no discrimination against any citizen in the matter of**
employment, remuneration, and other conditions of service. **The**
Government shall ensure that the minimum wages fixed by it shall be
paid to all workers engaged in any industry or occupation, and shall
also ensure that the minimum wages fixed by it shall be paid to all
workers engaged in any industry or occupation.
- (d) **It shall be the duty of the Government to ensure that the minimum**
wages fixed by it shall be paid to all workers engaged in any
industry or occupation.
- (e) **It shall be the duty of the Government to ensure that the minimum**
wages fixed by it shall be paid to all workers engaged in any
industry or occupation.
- (f) **It shall be the duty of the Government to ensure that the minimum**
wages fixed by it shall be paid to all workers engaged in any
industry or occupation.
- (g) **It shall be the duty of the Government to ensure that the minimum**
wages fixed by it shall be paid to all workers engaged in any
industry or occupation.

CONFIDENTIAL

13). The analysis of industrial excess capacity and its utilization for purposes of export discussed in the foregoing paragraphs shows that the utilization of this capacity can be facilitated if the following steps are taken by all member countries of the United Nations:

- (a) It is essential to arrive at a standard definition of the term "excess capacity" and to adopt comprehensive legislation of this industrial capacity.
- (b) The measurement of industrial capacity and its expression in the form of percentage under-employment of capacity as discussed in chapter 13 should be adopted as the standard method of measuring capacity with appropriate adjustments for differences in the structure of industry among member countries. The use of different percentages will not be helpful unless the countries concerned have the same definition of capacity. The use of the term "excess capacity" is not recommended because it is too general and does not indicate the nature of the problem. The term "under-employment of capacity" is preferred.
- (c) For the purpose of the study of industrial capacity, a standard definition of industrial capacity should be adopted and the existing definitions of industrial capacity should be modified to conform with this standard definition. The standard definition should be based on the capacity of the plant as designed to produce the maximum output of the product under normal conditions of operation. The capacity of a plant should be measured in terms of the number of units of the product which can be produced in a given period of time.
- (d) The standard definition of industrial capacity should be adopted by all member countries of the United Nations and the standard definition should be used by all member countries of the United Nations.

14). It is necessary that the measures relating to the utilization of idle capacity in each industrial group be carefully studied by member countries. Such studies have been undertaken in India, but detailed studies of each industrial group included in the [] as adopted by industrial countries, should also be undertaken.

15). Excess capacity will frequently be created for economic reasons in certain countries, in order to make optimum use of the available resources. It is necessary that the measures adopted in member countries to deal with excess capacity should be based on the principle of the free market. The free market principle should be applied to the disposal of excess capacity. The free market principle should be applied to the disposal of excess capacity in the form of exports. The free market principle should be applied to the disposal of excess capacity in the form of exports. The free market principle should be applied to the disposal of excess capacity in the form of exports. The free market principle should be applied to the disposal of excess capacity in the form of exports.

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2.2.1. Objectives and Responsibilities in the Development of a New Product

The primary objective of this document is to define the roles and responsibilities of all personnel involved in the development of a new product. It is intended to serve as a guide for project management and to ensure that all team members are aware of their specific duties and the overall goals of the project. The document outlines the key phases of the product development process, from initial concept to final production, and provides a clear framework for communication and collaboration among all stakeholders.

2.2.2. Roles and Responsibilities

The following table defines the roles and responsibilities of the key personnel involved in the product development process:

| Role | Responsibilities |
|----------------------|--|
| Product Manager | Define the product vision, manage the product lifecycle, and ensure that the product meets the needs of the market. |
| Project Manager | Manage the project schedule, budget, and resources, and ensure that the project is completed on time and within budget. |
| Business Development | Identify and develop new business opportunities, and manage the sales and marketing efforts for the product. |
| Engineering | Design and develop the product, and ensure that it meets the required technical specifications. |
| Manufacturing | Produce the product in a cost-effective and efficient manner, and ensure that it meets the required quality standards. |
| Quality Assurance | Test and inspect the product to ensure that it meets the required quality standards, and identify and resolve any defects. |
| Customer Support | Provide technical assistance and support to customers, and ensure that they are satisfied with the product. |

It is the responsibility of all personnel to adhere to the guidelines and standards outlined in this document, and to work together to ensure the successful development and production of the product.

Section 1. General Policy and Objectives

Section 2. Authority

Section 3. Definitions

100-1

Section 4. Scope of Control

Section 5. Administration

The purpose of this regulation is to establish a system of control over the production and distribution of certain commodities which are essential to the national health, safety or interest. This system shall be based on the principle of self-regulation by the industry, subject to the supervision and control of the Government. The Government shall have the right to suspend or modify this regulation at any time if it is determined that the industry is not complying with the requirements of this regulation or that the national health, safety or interest requires such action.

Section 6. Reporting Requirements

Manufacturers and processors shall file reports with the Federal Reserve Board regarding their production and distribution of controlled commodities.

The Federal Reserve Board shall have the right to require any manufacturer or processor to furnish such information as it may deem necessary for the purpose of carrying out this regulation.

100-2

Section 7. Enforcement

Violations of this regulation shall be subject to the penalties provided in the Federal Reserve Act.

100-3

Section 8. Exemptions

The Federal Reserve Board may exempt any manufacturer or processor from the requirements of this regulation if it is determined that such exemption is in the public interest.

Part of the items required for manufacture were not listed from independent sources and resulted in better utilization of capacity.

100-4

Section 9. Miscellaneous

This regulation shall be effective on the date of its promulgation.

Controlled commodities shall be subject to this regulation. No manufacturer shall be exempt from the requirements of this regulation.

(1) Manufacturers of steel products to 40.

Reference made

The need for independent steel production was not affected until production and utilization of capacity.

Section 101. [Redacted]

(1) [Redacted]

[Redacted]

... [Redacted] ...

... [Redacted] ...

Section 102. [Redacted]

(1) [Redacted]

[Redacted]

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[Redacted]

[Redacted]

[Redacted]

Section 103. [Redacted]

... [Redacted] ...

Section 104. [Redacted]

(1) [Redacted]

(a) [Redacted]

... [Redacted] ...

(b) [Redacted]

... [Redacted] ...

(c) [Redacted]

... [Redacted] ...

Specific cases

Stable bleaching powder

Lack of demand, owing to arrival of large quantity of imported bleaching powder, and consequent fall in price of the domestic product.

Stable prices/costs

Under the present conditions of supply and demand, the prices of the various fertilizers are stable, owing to the fact that the supply is sufficient to meet the demand, and the cost of production is not likely to rise.

Stable prices/costs

Import of fertilizers from the United States, and other countries, is expected to be sufficient to meet the demand, and the cost of production is not likely to rise.

Stable prices

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Stable prices

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Stable prices

Import of fertilizers from the United States, and other countries, is expected to be sufficient to meet the demand, and the cost of production is not likely to rise.

III Manufacture of Fertilizers

(I) **Ammonia and nitric acid and salts (except sodium nitrate and salts)**

The manufacture of ammonia and nitric acid and salts is expected to be sufficient to meet the demand, and the cost of production is not likely to rise.

115 Fine and pharmaceutical chemicals

Drugs and pharmaceuticals

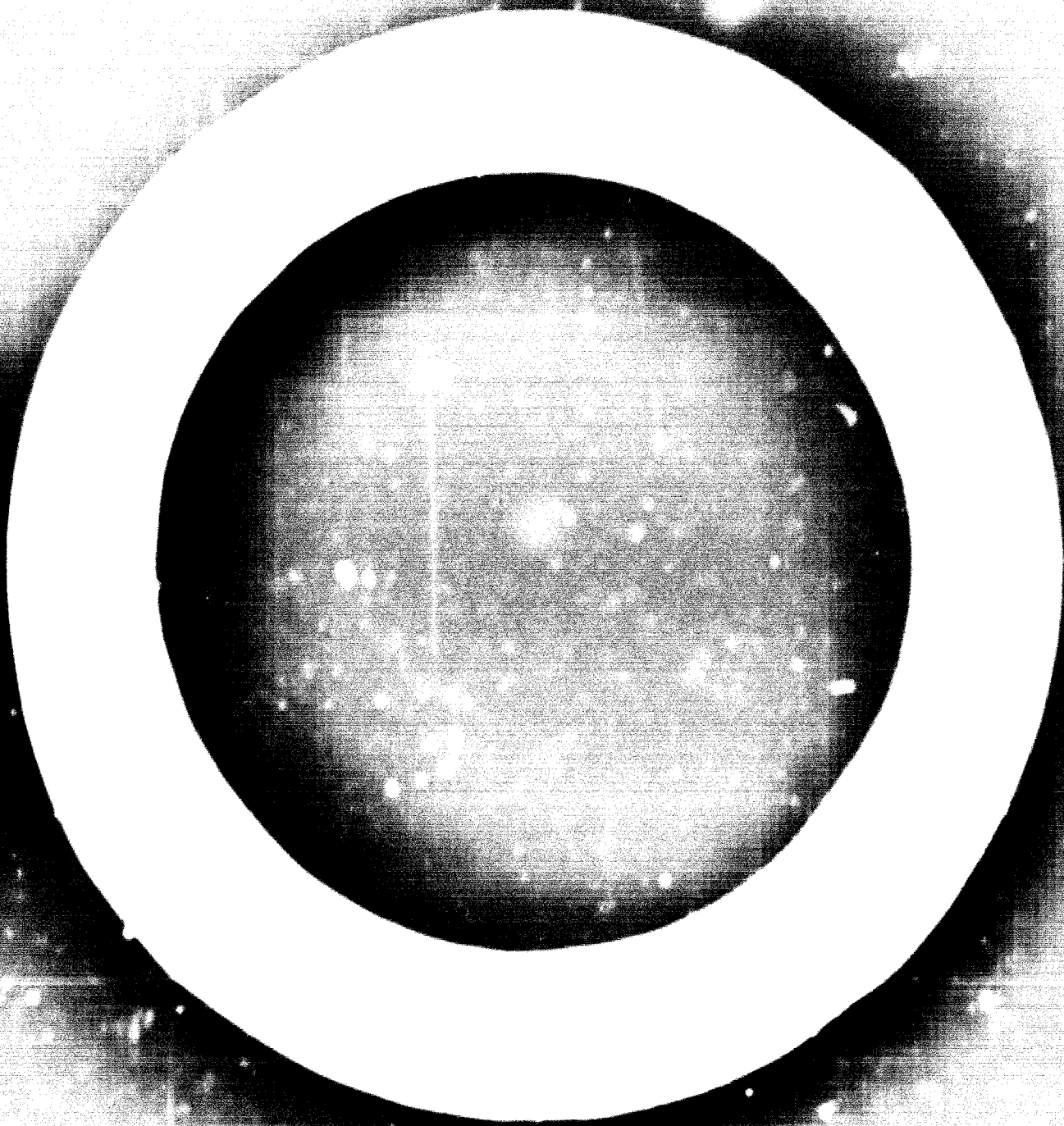
- (a) Chloroform and its ester Accumulation of stocks.
- (b) Anti-diabetic drugs: Accumulation of stocks.
 Insulin etc.
- (c) Anti-cancer and other Accumulation of stocks.
 drugs such as etc.
- (d) Anti-tubercular drugs Less efficient due to heavy import.
 INH Import is prohibited.
 PAS and its salts
- (e) Synthetic hormones Reorganisation of a plant and loss
 of share from the major producers.
- (f) Sulpha drugs Low availability of imported intermediates.
- (g) Vitamins:
 Vitamin of B_{12} group Low availability of para-aminobenzoic acid, some quantity of which is further converted into hydroxybenzoic acid.

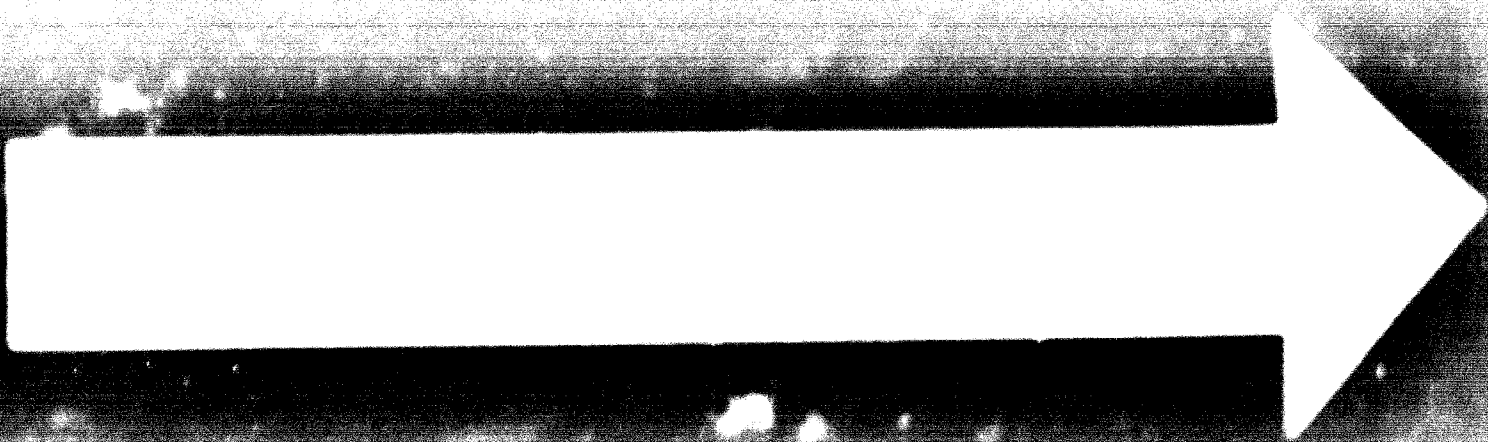
 Vitamin B_6 Low availability of imported intermediates at reasonable prices.

 Vitamin C Less efficient due to heavy import (now prohibited).
- (h) Other drugs:
 Piperazine derivatives Production curtailed according to demand.
 Fluothionin Low availability of chemicals.
 Sedatives
 Synthetic anti-infectives (all compounds and antibiotics) Production curtailed according to demand.
- (i) Fine chemicals Phases of some prices and P.G. to be followed owing to unavailability of better or cheaper substitutes.

116 Spices, dyes and other natural products (except sugar)

- Vanilla and other Low demand and excessive importation.
- Spices
- Scented products Preference for local goods.

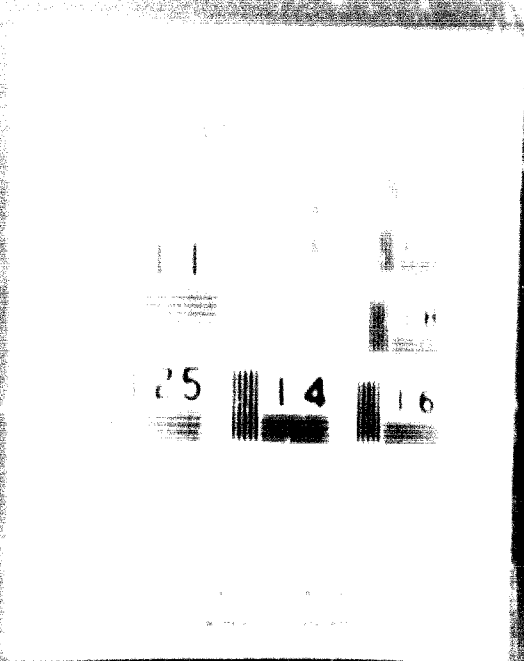




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We regret that some of the pages in the microfiche copy of this report may not be up to the proper legibility standards, even though the best possible copy was used for preparing the master fiche.

317 Soap and other washing and cleaning compounds

Soap and allied products

Synthetic detergent

Shortage of imported raw materials such as tallow, palm oil etc.

Requires some additional imported equipment.

318 Manufacture of matches

Labour trouble in organized sector (mechanized).

319 Manufacture of miscellaneous chemical products

Kyrobalan extract

Lack of demand from overseas market.

Group 33 Manufacture of non-metallic mineral products (except products of petroleum and coal)

Cement

Repairs, power restriction, lack of workable orders, labour troubles etc.

Refractories)
Insulators)

Lack of diversification of product.

Sanitary ware

Slackening of construction programmes.

Asbestos cement products

Better position of competitive materials arising from double excise duty for asbestos product as against no excise duty on competitive materials. Shortage of raw materials.

Group 34 Basic metal industries

341 Basic iron and steel industries

Steel casting

Recession affected utilization of capacity.

Suffering from serious effect of recession.

Steel forgings

Recession.

Cast iron pressure pipe/
cast iron spun pipe

Abrupt change in government policy caused serious difficulties to the industry.

Cast iron castings

Required in considerable quantity in railways. Curtailment of orders from railways owing to austere economy measures and various other engineering industries.

(Note: Power shortage and labour trouble also affected some of the above industries).

Malleable iron castings

Old units are not equipped with latest foundry equipment, and the new units on the latest lines are in gestation period. Bottleneck owing to restricted availability of basic raw materials such as low phosphorus pig iron, low ash BP hard coke, graded quality steel scrap. Recession in off-take of automobile industry and reduction in railway orders.

342 Copper smelting and rolling mills

Pipes and tubes, sheets and circles

Production depends upon import of virgin metal. Allocation of foreign exchange inadequate to fully utilize installed capacity.

343 Aluminium manufacture

Aluminium ingot and semis such as sheets and circles etc.

Shortage of imported raw materials such as cryolite, aluminium fluoride, fluor-spars, calcined anthracite coal, sodium fluoride, and short supply of caustic soda affects utilization of capacity of aluminium ingots and this ultimately affects the other products.

Wire rods for ACSR

Depends upon supply of imported electrolytic aluminium ingot/bars/rods and steel wire.

344 Brass manufacture

Allocation of foreign exchange for non-ferrous virgin metal on the basis of past performance rather than on the basis of actual requirement retards the utilization of capacity.

349 Basic metal industries NEC

Lead

Shortage of lead conc.

Lead pipes and tubes

Paucity of raw materials.

Lead sheets

Brass/copper and similar alloy sections (extruded), arsenical copper rods, bearing metal, ball metal and bronze.

Industry depends primarily on the import of various non-ferrous virgin metals. Shortage of foreign exchange prevents import to the extent required by the industry. Hence utilization of installed capacity is very small.

Group 35 Manufacture of metal products
(except machinery and transport equipment)

353 Manufacture of fittings, fixtures and fasteners

Recession and difficult investment situation affected the industry, though liberalized licenses for raw materials etc. granted. Shortage of materials also affected production.

359 Manufacture of metal products
NEC

Hurricane lantern
Expanded metal

Shortage of raw material.
Short supply of indigenous sheets; accumulation of stocks.

Building hardware

Recession.

Group 36 Manufacture of machinery (except electrical machinery)

Most of the items produced by this industry are made to order, but light mechanical engineering industries, which produce consumer durable goods, domestic and industrial appliances, office equipment, etc. have adequate installed capacity. Some of the industries of this class have priority in importing raw materials. Recession and difficult investment situation are responsible for a set-back in utilizing capacity. Foreign exchange difficulties hindered proper utilization of capacity in case of non-priority group. Transport bottleneck, labour unrest and conservative tendency in factories, recession, high price of American raw materials issued under IMAID and rupee licence, and difficult credit position were found to affect production and utilization of capacity.

Tractors

Shortage of tires and tubes.

Sewing machines

Labour trouble and accumulation of stock.

Phonograph needles

Shortage of imported raw material and damage from fire.

Road rollers

Lack of demand owing to recession.

Auto leaf springs

Recession in automobile industry.

Earth-moving equipment

Recession and lack of demand.

Fuel Injection equipment,
Clutch assembly

Recession and less demand for replacements.

Machine tools

Lack of demand and recession.

GROUP 11 MANUFACTURE OF ELECTRICAL EQUIPMENT, ACCESSORIES, APPARATUS AND MATERIALS

Oil and other lamps

Electrical lamps

Dry batteries

House service meters

Electrical measuring instruments

Electrical wiring accessories

Brass lamp holders

Electrical steel sheets

VIE and P. cable and wire

Paper-insulated power cables

Rare copper conductors

Labour trouble.

Labour strike and change from cartons.

Lack of demand.

Lack of demand

Lack of demand and change over to aluminum and bakelite holders.

Shortage of steel.

Lack of demand.

Less demand and change over to plastic cables.

Shortage of raw material and less demand.

GROUP 12 TECHNOLOGY OF LIQUID FUELS

Automobiles

Motorcycles, mopeds, three-wheelers, mopeds

Automobile auxiliaries

General recession in the country which affected engineering industries in particular.

Short supply of tires and tubes and labour trouble.

Recession.

ANNEX I

STATISTICAL INFORMATION AVAILABLE FROM CURRENT


APPENDICES

1. List of economic literature and Government publications on capacity assessment and rate of capacity utilization in industry in India.
- 2.1 Industrywise annual percentage under utilization of capacity at the end of each plan and in 1967.
- 2.2 Index of unutilized capacity at the end of each plan and in 1967.
3. Statement showing the basis in which installed capacity of different industries has been assessed by the sources concerned.
4. Statement showing the number and value of import licenses issued by categories during 1965-66 to 1967-68.
5. Statement showing the number of industrial disputes, workers involved, man days lost, wages and production lost due to industrial labour unrest in India during 1959-66.
6. Principal Articles of export from India.
7. Statement showing the unit prices of selected export articles in India and in other foreign countries.
8. Table showing the allocations made in India to large-scale and small-scale industries over the Planning period.
9. List of authorities submitting data to the Directorate of Industrial Statistics at Calcutta for the compilation of the Monthly Production of Selected Industries of India.

✓ The appendices, tables and annexes listed here are not being reproduced at this stage. The originals are, however, available to participants upon request.

Index

1. Statistics relating to installed capacity, production, number of shifts etc. of Cigarette Industry (Industry Code No.220.1)
2. Statistics relating to installed capacity, production, number of shifts etc. of Mixed Fertilizers (Industry Code No.311.1.1)
3. Statistics relating to installed capacity, production, number of shifts etc. of Sheet and Plate Glass (Industry Code No.332.2)
4. Statistics relating to installed capacity, production, number of shifts etc. of Inorganic Fertilizers (Industry Code No.311.1.1)
5. Statistics relating to installed capacity, production, number of shifts etc. of Air Conditioners and Refrigerators (Industry Code No.360.11.3)
6. Statistics relating to installed capacity, production, number of shifts etc. of Pulp, Paper and News Print (Industry Code No.271.1, 271.2 and 271.4)
7. Statistics relating to installed capacity, production, number of shifts etc. of Cotton Textiles (Industry Code No.231.1)
8. Statistics relating to installed capacity, production, number of shifts etc. of Jute Textiles (Industry Code No.231.2)
9. Statistics relating to installed capacity, production, number of shifts etc. of Woollen Textiles (Industry Code No.231.3)
10. Statistics relating to installed capacity, production, number of shifts etc. of Manufacture of Motor Vehicles (Industry Code No.323)
11. Statistics relating to installed capacity, production, number of shifts etc. of Sugar Industry (Industry Code No.207.1)
12. Statistics relating to installed capacity, production, number of shifts of Dye Stuffs (Industry Code No.311.7)

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1. Form of return under Rules 1 and 4 of the Collection of Statistics (Central Rules) 1959 required to be submitted to the Statistical Authority by registered factories
 2. Memorandum on Definitions, Concepts and Procedure - Annual Survey of Industries (AI)
 3. Statement showing the statewide allocation of factories in the Indian Cotton Textiles Industry based on a 10% sample
 4. Statement showing the statewide allocation of factories in Jute Textile Industry based on a 20% sample
 5. Statement showing the statewide allocation of factories in Woollen Textile Industry based on a sample of 25%
 6. Statement showing the statewide allocation of factories of Motor Vehicles Industry based on a sample of 10%
 7. Statement showing the statewide allocation of factories of Sugar Industry based on a sample of 20%
- 