

BOARD OF TRADE

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*The Report on the  
Census of Production  
for 1954*

Volume 8: Industry H

SUGAR AND GLUCOSE



*Presented by the Board of Trade to Parliament in pursuance of the  
Statistics of Trade Act, 1947 (10 & 11 Geo. 6 Ch. 39, Sec. 7)*

LONDON: HER MAJESTY'S STATIONERY OFFICE

1957

PRICE 1s 6d NET

# The Report on the Census of Production for 1954

## VOLUME 8 INDUSTRY H

### SUGAR AND GLUCOSE

THIS REPORT on the Sugar and Glucose Industry relates to establishments engaged wholly or mainly in producing or refining sugar and the manufacture of syrup and treacle, molasses, invert sugar and glucose.

This industry corresponds to minimum list heading 155 in the Standard Industrial Classification. There were no establishments in Northern Ireland in the register for this trade.

#### LIST OF TABLES

Table No.	Title	Page	Table No.	Title	Page
1	Industry summary: estimates for the industry as a whole	8/H/3	6	Sales of principal products of the industry by establishments classified to other industries	8/H/5
2	Summary of returns received	8/H/3	7	Sales in the industry of other than principal products	8/H/6
3	Analysis by size, 1954	8/H/4	8	Total make of intermediate products	Does not apply
4	Analysis according to specialisation within the industry	8/H/4	9	Purchases of materials and fuel, 1954	8/H/6
5	Sales of principal products of the industry, including sales of these products by establishments classified to other industries	8/H/5	10	Average number of employees, wages, salaries and superannuation payments	8/H/8
			11	Employment in a specified week	8/H/8

IMPORTANT NOTES and definitions appear on the next page. In interpreting the data in the tables, it is essential to bear these in mind.

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The following notes describe terms in general use in the tables of the report. More detailed explanations of the terms used and a description of the scope and method of taking the census are given in the separate booklet entitled 'The Report on the Census of Production for 1954 - Introductory Notes' (price 1s. 6d. net).

**Industrial Classification:** Establishments are classified to industries according to the nature of their output and, as far as possible, in conformity with the Standard Industrial Classification. Certain products are identified as the principal products of individual industries, the principal products for a given industry being of a similar nature or commonly associated in production. The principle of classification normally followed is that an establishment is classified to an industry if its output of the principal products of that industry accounted for a greater proportion of the value of its output than did its output of the principal products of any other industry.

**Specialist producers** normally comprise those establishments 50 per cent. or more of whose total output by value is accounted for by the characteristic products of the specialist group.

**Intermediate products:** For some industries figures are given showing the total quantities made during the year of intermediate products, i.e., products which may be further processed in the establishments in which they are produced.

**Larger establishments:** The information given in the report relates mainly to 'larger establishments', i.e., establishments of firms employing on the average more than 10 persons. In most cases an establishment comprises the whole of the premises under the same ownership or management at a particular address (e.g., a mine or factory). Offices, warehouses, laboratories and other ancillary places of business situated apart from the producing works are not regarded as separate establishments and are included in the return for the works.

**Small firms** are those employing on the average 10 or fewer persons.

The estimates for the industry as a whole given in Table 1 are normally obtained by increasing the other items shown in the same proportion as total employment.

**Gross output (production)** is the total value of goods made and other work done during the year; it is obtained by adjusting the value of sales and work done during the year for changes in the value of stocks of products on hand for sale and work in progress.

**Net output** is the amount left after deducting from the value of gross output the aggregate of the cost of materials and fuel used, the amount paid for work given out, and, for 1951 and 1954, any transport payments made. This represents the value added to materials by the process of production, and constitutes the fund from which wages, salaries, rents, rates and taxes, advertising and other selling expenses and all other similar charges have to be met, as well as depreciation and profits.

**Sales** means sales during the year of goods made in the establishment covered by the return or made on commission for it, whether produced in the year or not. The value of sales is the net selling value, i.e., the amount charged to customers, whether on an ex-works or delivered basis, and net of any trade discounts, agents' commissions, allowances for returnable cases, purchase tax, etc. For goods charged on a delivered basis to customers overseas, firms were required to give the f.o.b. value.

**Materials and fuel:** The total cost of materials and fuel purchased includes all purchases during the year of materials for use in production, and of fuel (includ-

ing oil, gas and electricity) for all purposes; packing materials, including the full cost of returnable cases when first purchased; workshop and office materials; water charges; materials for repairs to buildings, plant and vehicles when carried out by firms' own work-people included in their returns; consumable tools; and parts for machinery purchased as replacements. Purchases of goods for merchandising are excluded. The cost of materials and fuel used, given in Table 2, is obtained by adjusting purchases for changes during the year in the value of stocks.

**Stocks:** Firms were required to give stocks of materials and fuel, products on hand for sale, and work in progress, at income tax values.

**Customs and Excise Duty** paid on materials purchased is normally included in the cost of materials. Finished goods are similarly valued as they were sold, duty-paid or duty-free. The net amount of any duty paid is deducted in arriving at net output.

**Employment:** Total employment includes working proprietors, administrative, technical and clerical employees, and operatives, but excludes outworkers, canteen employees and persons engaged in merchandising or any other activity not covered by a firm's return, who are shown separately as excluded employees. Employees are persons on the pay-roll (i.e., persons whose National Insurance cards were held by employers), whether employed full-time or part-time.

**Working proprietors** are proprietors of businesses other than limited companies, together with members of their families who worked in the business without receiving fixed wages or salaries. Any persons working less than half the normal hours are excluded. For Northern Ireland directors of limited companies (other than those paid by fee only) are also included.

**Administrative, technical and clerical employees** include directors, other than those paid by fee only (except in Northern Ireland); managers, superintendents and works foremen; research, experimental, development, technical and design employees (other than operatives); draughtsmen and tracers; travellers; and office (including works office) employees.

**Operatives** include all other classes of employees, i.e., broadly speaking, all manual workers.

**Outworkers** are persons employed by the firm who work on materials supplied by the firm in their own homes.

**Wages and salaries** include all overtime payments, bonuses and commissions without any deductions for income tax, insurances, contributory pensions etc. They exclude payments to working proprietors.

**Capital expenditure** includes expenditure on new building work, and on plant, machinery and vehicles, charged to capital account during the year, including any transport and installation costs involved. It includes expenditure in respect of establishments in Great Britain which had not begun production before the end of the year (which has not previously been included in the Census of Production reports for individual industries).

**Symbols used:**

.. for not available

- for nil or negligible (less than half the final digit shown).

Where figures are rounded, e.g., given to the nearest £ thousand, there may be apparent slight discrepancies between the sums of constituent items and the totals shown. In some cases, figures have been combined with others of a similar nature where publication of separate details might disclose information relating to an individual undertaking.

## Industry summary

Estimates for the industry as a whole

TABLE 1

	United Kingdom			Scotland 1954	Wales 1954
	1948	1951	1954		
	£ million	£ million	£ million	£ million	£ million
Gross output (production)	136.1	177.5	188.7	14.4	-
Net output	13.8	18.6	22.2	1.4	-
Total stocks and work in progress					
At beginning of year	12.3	18.1	29.3	1.5	-
Change during year	+ 2.3	+ 2.8	- 11.5	- 0.6	-
Capital expenditure less disposals (a)	1.6	2.9	4.1	0.1	-
Wages and salaries	6.6	8.1	10.3	0.6	-
Total employment (including working proprietors)	Thousands 18.1	Thousands 18.9	Thousands 18.7	Thousands 1.5	Thousands -

(a) Capital expenditure on new building work, plant, machinery and vehicles (including (except in 1948) that incurred in Great Britain for establishments not yet in production), less amounts received for plant, machinery and vehicles disposed of.

## Summary of returns received

TABLE 2

	Unit	Great Britain 1948	United Kingdom	
			1951	1954
<b>FIRMS EMPLOYING ON AVERAGE MORE THAN 10 PERSONS</b>				
Number of establishments	No.	51	50	51
Total value of sales and work done	£'000	133,276	175,637	198,684
Products on hand for sale	..	4,699	9,643	19,870
and work in progress	{ at beginning of year	..	..	..
	{ change during year	+ 2,758	+ 1,207	- 10,959
Gross output (production) (a)	..	135,507	176,844	187,725
Ministry of Food cost adjustments etc.	..	- 793	- 8,724	+ 1,394
Purchases of materials and fuel	..	89,291	139,708	150,860
Stocks of materials and fuel	{ at beginning of year	..	..	..
	{ change during year	..	..	..
Cost of materials and fuel used	..	89,760	138,107	151,388
Payment for work done on materials given out	..	17	9	-
Customs and Excise duties	..	31,183	9,960	9,605
Payment for transport (b)	..	528	1,521	6,047
Net output	..	13,754	18,522	22,079
Average number of employees	{ operatives	No.	15,124	15,534
	{ others	..	2,939(c)	3,265
Total employment	..	18,063	18,799	18,647
Net output per person employed	£	761	985	1,184
Wages and salaries	{ of operatives	£'000	4,838	5,914
	{ of others	..	1,711	2,106
Capital expenditure	..			
New building work (d)	..	337	654	739
Plant and machinery	{ acquisitions (d)	..	1,171	2,220
	{ disposals	..	35	27
Vehicles	{ acquisitions (d)	..	101	91
	{ disposals	..	4	9
<b>FIRMS EMPLOYING ON AVERAGE 10 OR FEWER PERSONS</b>				
Number of returns	No.	19	14(e)	17
Total employment, including working proprietors	..	77	70(e)	93

(a) For the year 1948 gross output excludes payments for transport services outwards on finished goods sold. For subsequent years gross output includes payments to other firms and undertakings and to firms' own separate transport organisations for transport services.

(b) Payments to other firms and undertakings and to firms' own separate transport organisations. For the year 1948 payments cover only transport outwards of finished goods sold. For subsequent years they cover payments for transport of both finished goods sold and materials and fuel purchased.

(c) Number in week ended September 25, 1948.

(d) Excluding expenditure for establishments not yet in production.

(e) Excluding Northern Ireland. No information about small firms was collected in Northern Ireland for 1951.

## SUGAR AND GLUCOSE

Analysis by size, 1954

Larger establishments in the United Kingdom

TABLE 3

Average number employed	Estab-lish-ments	Gross output	Net output	Employees		Wages and salaries		Capital expenditure (a)	Net output per person employed
				Operatives	Others	Operatives	Others		
11 - 24	3	£'000 238	£'000 30	Number 40	Number 17	£'000 10	£'000 11	£'000 4.087	£ 532
25 - 49	4	1,189	259	117	37	50	28		1,680
50 + 99	10	4,033	844	558	163	209	122		1,171
100 - 199	6	3,184	660	703	139	242	108		784
200 - 299	11	25,010	3,749	2,338	678	1,202	482		1,243
300 and over	17	154,071	16,536	11,514	2,343	5,671	2,103	1,193	
Total	51	187,725	22,079	15,270	3,377	7,384	2,852	4,097	1,184

(a) Capital expenditure on new building work and on acquisition of plant, machinery and vehicles, excluding expenditure for establishments not yet in production.

Analysis according to specialisation within the industry, 1954

Larger establishments in the United Kingdom

TABLE 4

	Unit	Specialist producers of		Remainder of the industry	Total
		Beet Sugar	Glucose		
Number of establishments	No.	18	7	26	51
Total value of sales and work done	£'000	48,148	10,552	139,984	198,684
Sales of characteristic products	"	48,096	8,810		
Products on hand for sale	"	13,865	160	5,845	19,870
and work in progress	"	- 7,195	+ 38	- 3,803	- 10,959
Gross output (production)	"	40,953	10,591	136,181	187,725
Purchases of materials and fuel	"	34,275	8,142	108,442	150,860
Stocks of materials and fuel	"	2,158	559	6,556	9,273
at beginning of year	"				
change during year	"	+ 101	+ 304	- 933	- 528
Cost of materials and fuel used	"	34,174	7,838	109,376	151,388
Payment for work done on materials given out	"				
Payment for transport	"	1,037	289	4,720	6,047
Net output	"	5,008	2,157	14,914	22,079
Average number of employees	No.	4,392	1,002	9,876	15,270
of operatives	"	1,225	367	1,785	3,377
of others	"	5,617	1,369	11,661	18,647
Total employment	"				
Net output per person employed	£	892	1,576	1,279	1,184
Wages and salaries	£'000	2,144	490	4,751	7,384
of operatives	"	875	256	1,721	2,852
of others	"				
Capital expenditure (a)	"				739
New building work	"				3,188
Plant and machinery	"	(b)	(b)	(b)	66
disposals	"				170
Vehicles	"				22
acquisitions	"				
disposals	"				

(a) Excluding expenditure for establishments not yet in production.

(b) Owing to the risk of disclosure of information relating to individual firms, separate particulars cannot be given.

## SUGAR AND GLUCOSE

Sales of the principal products of the industry, including sales of these products by establishments classified to other industries

Larger establishments in the United Kingdom

TABLE 5

	1951		1954		
	Quantity	Value	Quantity	Value	Entries
	Th.cwt.	£'000	Th.cwt.	£'000	Number
Sugar, unrefined	5,254	8,402	4,583	10,121	17
Sugar, refined or rendered by any process equal thereto					
Over 98° polarisation	50,225	130,506(a)	57,027	153,443	28
Not exceeding 98° polarisation	624	1,734(a)	950	2,668	..
Sugar, ground or otherwise prepared for icing, fondants, etc.	965	3,288	1,194	4,471	37
Syrup and treacle	2,248	7,641	1,327	4,437	13
Invert Sugar, other than Syrup and Treacle	705	2,227	824	2,368	12
Molasses containing more than 50% of sweetening matter	4,272	2,870	3,994	1,478	25
Glucose					
Solid	179	546	180	589	5
Liquid	2,104	7,086	2,963	8,537	9
Powdered	120	762	59	288	..
Caramel	159	702	170	738	10
Sugar and extracts from sugar which cannot be completely treated by the polariscope not included in any of the headings above	460	1,105	410	942	5
Beet pulp	7,186	6,067	7,565	6,174	18
Waste products	-	243	-	320	29
Work done for trade or on commission	-	23	-	115	..
Total		173,202		196,688	..
Sales in other industries (see Table 6)		953		1,093	..
Principal products of this industry sold by establishments in the industry		172,249		195,594	50

(a) Including some apple sweetener recorded separately in 1951.

Sales of principal products of the industry by establishments classified to other industries

Larger establishments in the United Kingdom

TABLE 6

	1954			Principal industries in which produced (a)
	Quantity	Value	Entries	
	Th.cwt.	£'000	Number	
Sugar, refined or rendered by any other process equal thereto				
Over 98° polarisation	283	1,062	27	9L, 8I, 9G
Sugar, ground or otherwise prepared for icing, fondants, etc.				
Syrup and treacle				
Glucose, powdered	3	32	..	8J, 8I, 8G, 9K
Caramel				
Total	286	1,093		

(a) The volume and industry references given are to the industries shown in the list at the back of this report.

Sales in the industry of other than principal products  
Larger establishments in the United Kingdom

TABLE 7

	1954	
	Quantity	Value
	Th.cwt.	£'000
Nuts shelled, ground, or otherwise prepared, excluding desiccated coconut	49.9	295
Other preserved foods, including preserved fruit	..	308
Sugar confectionery	Hundreds	
	113,107	611
Second hand sacks and bags of jute repaired	Tons	
	8,372	288
Barley, maize, and rice products	Th.cwt.	
	5.1	25
Tin containers	..	1,562
Other goods		
Total		3,090

TABLE 8 - Total make of intermediate products  
Larger establishments in the United Kingdom

This table is not applicable to the industry.

Purchases of materials and fuel, 1954  
Larger establishments in the United Kingdom

TABLE 9

	Quantity	Cost
	Th.tons	£'000
Materials	4,521	27,538
Sugar beet		
Sugar unrefined	276	11,996
Home produced	2,245	86,981
Imported	25	1,497
Refined sugar	8	444
Glucose	87	2,361
Maize	114	4,647
Farinaceous starch	185	398
Limestone and lime		
Piece goods including filter cloth (excluding any used for packing purposes)	Th.sq.yds.	
Of cotton or mainly of cotton	316	77
Of other materials	162	28
Charcoal and carbon	Th.tons	
	5	357
Processed syrup	2	105
Beet molasses	8	90

TABLE 9 (contd.)

	Quantity	Cost
	Th.tons	£'000
Materials (contd.)		
Packing materials		
Paper bought for making bags	7	567
Paper board for making cases and cartons	18	621
Kraft paper (a)	..	265
Other wrapping paper (a)	..	318
Cardboard boxes and cartons	2	167
Fibre board packing cases	6	277
Paper sacks and bags	6	698
Tinplate	5	286
Tin containers purchased as such	2	241
	..	33
	Th.hundreds	
Hessian and jute sacks and bags	232	2,928
All other packing materials	..	688
Replacement parts for machinery, plant and vehicles and consumable tools bought as replacement	..	1,213
All other purchased materials	..	1,510
Fuel and electricity	Th.tons	
Coal	999	4,040(b)
Coke	26	181
Liquid fuels (including creosote/pitch mixtures)		
For use in internal combustion engines	Th.gal.	
Motor spirit (petrol) for use in road vehicles and derv. fuel	378	68
Other	359	19
For burning in furnaces, boilers, kilns, etc.		
Gas purchased	Th.therms	
From Gas Boards	288	18
From other sources, including other departments of the same firms	-	-
Electricity purchased (c)	Th.kWh.	
From Electricity Boards	20,490	129
From other sources, including other departments of the firms	-	-
All other purchased fuel		..
Total cost		150,860

(a) So far as separately recorded.

(b) Including a small amount of other purchased fuel.

(c) The total quantity of electricity generated in firms own establishments in this industry in 1954 was 238,738 Th. kWh.

## SUGAR AND GLUCOSE

Average number of employees, and wages, salaries and superannuation payments

Larger establishments in the United Kingdom

TABLE 10

	1951	1954
	Number	Number
Average number of employees		
Operatives	15,534	15,270
Administrative, technical and clerical employees	3,265	3,377
Total (a)	18,799	18,647
	£'000	£'000
Wages and salaries paid to		
Operatives	5,914	7,384
Administrative, technical and clerical employees	2,106	2,852
Total	8,020	10,236
	£	£
Wages and salaries per head		
Operatives	381	484
Administrative, technical and clerical employees	645	845
		£'000
Superannuation and other pension funds for employees and dependents		
Employers' contributions	..	333
		Number
Employees covered	..	4,667
		£'000
Pension, etc. payments to former employees and dependents (b)	..	270

(a) The following persons, not included above, were also employed by larger establishments in this industry ("other workers" includes, for example, employees engaged in merchanting):-

	United Kingdom	
	1951	1954
	Number	Number
Canteen workers		
Male	74	69
Female	396	328
Total	470	397
Other workers		
Male	162	136
Female	86	84
Total	248	220
Total excluded employees	718	617

(b) The figures given relate to larger establishments in Great Britain only.

Employment in a specified week (a)

Larger establishments in the United Kingdom

TABLE 11

	Number					
	1951			1954		
	Males	Females	Total	Males	Females	Total
Working proprietors (b)	-	-	-	-	-	-
Operatives	14,486	3,456	17,942	14,383	3,704	18,087
Administrative, technical and clerical employees	2,516	864	3,380	2,636	803	3,439
Total employees	17,002	4,320	21,322	17,019	4,507	21,526

(a) Week ended October 27, 1951, or October 30, 1954.

(b) No working proprietors were recorded for any post-war years.

## LIST OF INDUSTRY REPORTS

## VOLUME 1

- A. Coal Mines
- B. Non-Metalliferous Mines and Quarries (other than Coal, Salt and Slate)
- C. Salt Mines, Brine Pits and Salt Works
- D. Slate Quarries and Mines
- E. Metalliferous Mines and Quarries
- F. Brick and Fireclay
- G. China and Earthenware
- H. Glass Containers
- I. Glass (other than Containers)
- J. Cement
- K. Abrasives
- L. Building Materials
- M. Manufactured Fuel

## VOLUME 2

- A. Coke Ovens and By-products
- B. Dyes and Dyestuffs
- C. Fertiliser, Disinfectant, Insecticide and Allied Industries
- D. Coal Tar Products
- E. Chemicals (General)
- F. Drugs and Pharmaceutical Preparations
- G. Toilet Preparations and Perfumery
- H. Explosives and Fireworks
- I. Paint and Varnish
- J. Soap, Candles and Glycerine
- K. Polishes
- L. Ink
- M. Match
- N. Mineral Oil Refining
- O. Oils and Greases
- P. Seed Crushing and Oil Refining
- Q. Glue, Gum, Paste and Allied Industries
- R. Plastics Materials

## VOLUME 3

- A. Blast Furnaces
- B. Iron and Steel (Melting and Rolling)
- C. Iron Foundries
- D. Steel Sheets
- E. Tinplate
- F. Wrought Iron and Steel Tubes
- G. Non-Ferrous Metals (Smelting, Rolling, etc.)
- H. Scrap Metal Processing
- I. Motor Vehicles and Cycles (Manufacturing)
- J. Motor Vehicles and Cycles (Repairing)
- K. Aircraft Manufacture and Repair
- L. Railway Locomotive Shops and Locomotive Manufacturing
- M. Railway Carriages and Wagons and Trams
- N. Carts, Perambulators, etc.

## VOLUME 4

- A. Shipbuilding and Ship Repairing
- B. Marine Engineering
- C. Machine Tools
- D. Textile Machinery and Accessories
- E. Small Arms
- F. Constructional Engineering
- G. Mechanical Handling Equipment

## VOLUME 4 (contd.)

- H. Printing and Bookbinding Machinery
- I. Mechanical Engineering (General)
- J. Mechanical Engineering (Repairing)
- K. Electrical Engineering (General)
- L. Electric Wires and Cables
- M. Radio and Telecommunications
- N. Batteries and Accumulators
- O. Electric Lighting Accessories and Fittings

## VOLUME 5

- A. Tool and Implement
- B. Cutlery
- C. Chain, Nail, Screw and Miscellaneous Forgings
- D. Wire and Wire Manufactures
- E. Hardware, Hollow-ware, Metal Furniture and Sheet Metal
- F. Brass Manufactures
- G. Needles, Pins, Fish Hooks and Metal Smallwares
- H. Scientific, Surgical and Photographic Instruments, etc.
- I. Watch and Clock
- J. Jewellery and Plate
- K. Precious Metals Refining
- L. Musical Instruments

## VOLUME 6

- A. Cotton Spinning and Doubling
- B. Cotton Weaving
- C. Woollen and Worsted
- D. Rayon, Nylon, etc. Production
- E. Rayon, Nylon, etc. Weaving, and Silk
- F. Flax Processing
- G. Linen and Soft Hemp
- H. Jute
- I. Rope, Twine and Net
- J. Hosiery and Other Knitted Goods
- K. Lace
- L. Carpets
- M. Narrow Fabrics
- N. Canvas Goods and Sacks
- O. Textile Converting
- P. Made-up Household Textiles
- Q. Textile Finishing
- R. Textile Packing

## VOLUME 7

- A. Asbestos
- B. Flock and Rag
- C. Hair, Fibre and Kindred Industries
- D. Leather (Tanning and Dressing)
- E. Feltmongery
- F. Leather Goods
- G. Fur
- H. Tailoring, Dressmaking, etc.
- I. Hats, Caps and Millinery
- J. Glove
- K. Umbrella and Walking Stick
- L. Boot and Shoe

## VOLUME 8

- A. Grain Milling
- B. Bread and Flour Confectionery
- C. Biscuit
- D. Bacon Curing and Sausage

## VOLUME 8 (contd.)

- E. Preserved Meat
- F. Milk Products
- G. Ice Cream
- H. Sugar and Glucose
- I. Cocoa, Chocolate and Sugar Confectionery
- J. Preserved Fruit and Vegetables

## VOLUME 9

- A. Margarine
- B. Fish Curing
- C. Cattle, Dog and Poultry Foods
- D. Vinegar and Other Condiments
- E. Starch
- F. Ice
- G. Miscellaneous Preserved Foods
- H. Brewing and Malting
- I. Wholesale Bottling
- J. Spirit Distilling
- K. Spirit Rectifying and Compounding
- L. Soft Drinks, British Wines and Cider
- M. Tobacco

## VOLUME 10

- A. Timber
- B. Furniture and Upholstery
- C. Soft Furnishings
- D. Shop and Office Fitting
- E. Wooden Containers and Baskets
- F. Paper and Board
- G. Wallpaper
- H. Cardboard Box, Carton and Fibre-board Packing Case
- I. Manufactured Stationery, Paper Bag and Kindred Industries
- J. Newspaper and Periodical Printing and Publishing
- K. Printing and Publishing, Bookbinding, Engraving, etc.

## VOLUME 11

- A. Rubber
- B. Linoleum, Leathercloth and Allied Industries
- C. Brushes and Brooms
- D. Toys and Games
- E. Sports Requisites
- F. Miscellaneous Stationers' Goods
- G. Cinematograph Film Production
- H. Cinematograph Film Printing
- I. Plastic Goods and Fancy Articles
- J. Incandescent Mantles

## VOLUME 12

- A. Building and Contracting
- B. Local Authorities (Building and Civil Engineering)
- C. Railways (Civil Engineering)
- D. Tramway, Trolley Bus and Omnibus Undertakings (Civil Engineering)
- E. Canal, Dock and Harbour Undertakings (Civil Engineering)
- F. Gas Supply Industry
- G. Electricity Supply Industry
- H. Water Undertakings

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