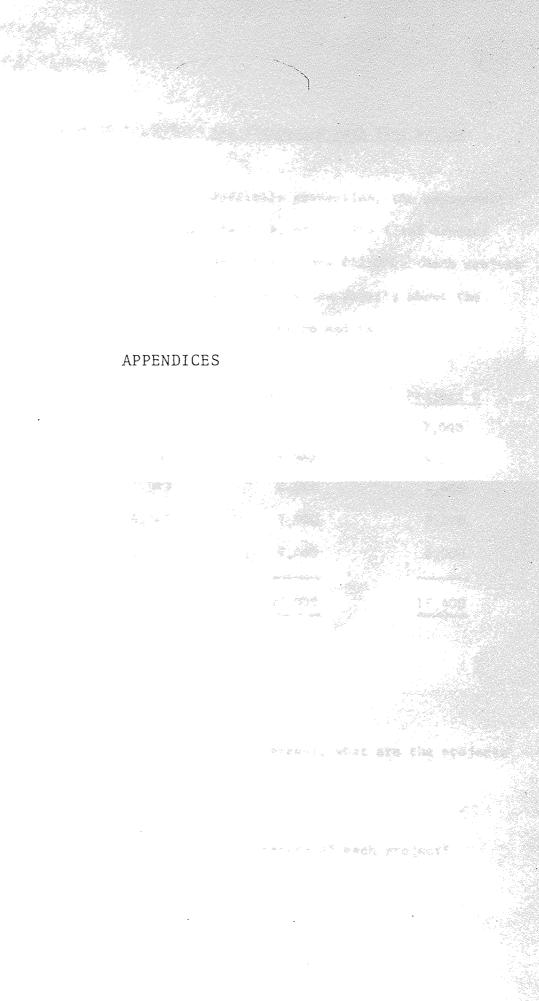


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Appendix One

Financial Planning

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(1) An Example to illustrate the discounted cash flow method:

A company is looking for profitable production, the management has to choose between alternatives A, B, or C. The fixed capital requirements of each one of these projects are £12,000. Each project has five years useful life. The following are details about the earnings of each project after depreciation and tax.

Year	Project A	Project B	<u>Project C</u>
1	3,000	, _, ,2,,000	7,000
2	5,000	2,000	6,000
3	5,000	2,000	2,400
4	4,000	7,000	2,000
5	3,000	7,000	2,000
	20,000	20,000	18,400

The questions are:

- If a minimum rate of return is 10 percent, what are the projects' net present value?

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- What is the time adjusted rate of return of each project?

(i) The Net Present Value:

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This method assumes some minimum desired rate of return. All expected cash flows are discounted to the present; using this minimum desired rate. If the result is positive, the project is desirable, and vice versa.

	Present Value	Proje	ct A	Proje	ct B	Projec	t C
Year	of £1 @ 10%	Net Profit	PV	Net Profit	PV	Net Profit	PV
1 2 3 4 5	0.909 0.826 0.751 0.683 0.621	3,000 5,000 5,000 4,000 3,000	2,727 4,130 3,755 2,732 1,863	2,000 2,000 2,000 7,000 7,000	1,818 1,652 1,502 4,781 4,347	7,000 6,000 2,400 2,000 1,000	6,363 4,956 1,802 1,366 621
futu	ent value re in flow	vs Að	15,207 12,000		14,100 12,000		15,108
Pres	ent Value	A TOTAL	3,207		2,100		3,108

The table shows that an initial investment for projects A, B or C yield net present values £3,207, £2,100 and £3,108 respectively, therefore, the three alternatives are desirable but project A is the best one as it generates the highest net present value.

(ii) The Time Adjusted Method:

With the net present value method, the required earnings rate must be selected in advance. There exists an alternative method, which finds the earnings rate at which the present value of the

earnings equals the amount of the investment. This rate is the time adjusted method, or the internal rate of return.

	Project A	Project B	Project C
Initial investment	12,000	12,000	12,000
Net present value	3,207	2,100	3,108
@ 10% as above			

Since these projects yield more than 10% as it appears from the net present value method, therefore, we try 10% and 15%.

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		T		,			4 . 1 4 7 5 4
	Present Value	Proje	ct A	Proje	ct B	Proje	et C
Year	of £1 @ 15%	Net Profit	PV	Net Profit	PV.	Net Profit	PV
1 2 3 4 5	0.870 0.756 0.658 0.572 0.497	3,000 5,000 5,000 4,000 3,000	2,610 3,780 3,290 2,288 1,491	2,000 2,000 2,000 7,000 7,000	1,740 1,512 1,316 4,004 3,479	7,000 6,000 2,400 2,000 1,000	6,090 4,536 1,579 1,144 497
	ent Value		13,459		12,051		13,846
Init	ial Invest	tment	12,000		12,000		12,000
Prese	ent Value		1,459	n ge	51		1,846

Project A: Net present value @ 10% Actual rate of return = 10% + Net present value @ 15% x (15% - 10%) $= 10\% + \frac{3,207}{3,207 - 1,459} \times 5\%$

= 19%

Actual rate of return =
$$10\% + \frac{2,100}{2,100 - 51} \times 5\%$$

= 15%

Project C:

Actual rate of return =
$$10\% + \frac{3,108}{3,108 - 1,846} \times 5\%$$
= 22%

From the above calculations the internal rate of return or the time adjusted return for the three projects are 19%, 15% and 22% respectively, therefore, project C is the best alternative according to the time adjusted method.

2. An example to illustrate the payback period ranking

Payback period is computed by the following formula:

Referring to the previous example; the following are the stream of earnings of projects A, B and C after tax; but before depreciation.

24,400

Year	Project A	Project B	Project C
1	5,400	4,400	9,400
2	7,400	4,400	8,400
3	7,400	4,400	4,800
4	6,400	*9,400	4,800
5	5,400	9,400	4,400

Calculations of the payback period.

Project A = 1 year +
$$\frac{12,000 - 5,400}{7,400}$$
 = 1.89 years
Project B = 2 years + $\frac{12,000 - 8,800}{4,400}$ = 2.73 years
Project C = 1 year + $\frac{12,000 - 9,400}{8,400}$ = 1.38 years

According to the payback period method project C is the best one as it has the fastest recovery of the investment.

3. An example to illustrate the annual rate of return or Average rate of return:

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The average rate of return is calculated as follow:

Average earnings per year after depreciation

Average life time investment

	Life		Total			Net
Project	Years	Investment	Earnings	Depreciation	Salvage	Earnings
		The same services	6668 1			
A	4	12,000	24,300	4,800	1,500	6,000
		and the state of the state of	es Pasts	r traditional district		
В	5	12,000	26,400	4,800	1,600	8,000
			nosa, there	Pare e estable		
С	6	12,000	24,400	4,800	1,200	6,400
			follows (Jestanta esta con		

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1,500	3
1,600	2

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According to the table, project B is the best as it yields the highest ROCE.

4. <u>Projections of Sales:</u>

To illustrate, suppose that a company's sales in 1978 were 2,000 units and had risen by 5 percent per annum over the past ten years. Projections of the volume of sales for the next ten years will be as follows:

Years	1978	1979	1980		1982	1983	1984		1986	1987	1988
Volume of Sales	2,000	2,100	2,210	2,320			2,690	2,820		3,110	3,270

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5. Projections of Variable Costs:

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To illustrate with regard to the projected volume of sales (as above); suppose that materials cost per unit in year 1978 was £300 and the trend over the past ten years had been for material's price to rise by 3 percent per annum, therefore, a projection of the cost of materials can be done as follows to the nearest £10.

Years	1978	1979	1980	1981		1983	1984	1985	1986	1987	1988
Mater- ials Cost	300	310	320	330	340	350	360	370	380	390	400

Projections about direct labour and direct overheads can be developed as illustrated for materials, we can then draw projections about variable costs in total.

6. Projections of Fixed Costs:

To illustrate; suppose that the fixed costs of research and development in 1978 were £5,000 and analysing the behaviour in the past ten years shows that the costs of research and development had been risen by 5 percent per annum, therefore a projection of research and development for the next ten years can be done as follows:

Years	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Projection of R & D		5,250	5,510	5,790	6,080	6,380	6,700	7,040	7,390	7,760	8,150

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Projections of other items of fixed costs can be made to obtain projections of the behaviour of total fixed costs for the next ten years.

7. Projections of the Four Components of Profit

To illustrate, let us refer to our previous examples. Suppose that the following data are obtained from projections, which have been done about sales volume, variable costs, fixed costs and selling price; the factors which have been called in the text "The Four Components of Profit".

Years	1978	1979	1980	1981	1982	1983	1984	1985	1986	1987	1988
Sales Volume Vari-	2,000	2,100	2,210	2,320	2,440	2,560	2,690	2,820	2,960	3,110	3,270
able Costs per unit	400	408	416	424	432	441	450	459	468	477	487
Fixed Costs £000's	145	150	155	162	170	180	195	196	200	202	204
selling price	600	600	602	602	599	598	_596	594	593	591	590

From projections of the four components of profit; a projection of profit during the next ten years can be derived by the use of the gross contribution method.

Projections of Profits

From Year 1979 to Year 1988

253,200	256,060	250,960	237,480	221,920	197,740	184,700	170,000	152,540	132,810
150,000	155,000	162,000	170,000	180,000	195,999	196,000	200,000	202,000	204,000
403,200	411,060	412,960	407,480	401,920	392,740	380,700	370,000	354,540	336,810
192	186	178	167	157	146	135	125	114	103
807	416			7	057	459	897	L 47	. 487
009	602	602	299	268				591	590
2,100	2,210	2,320	2,440	2,560	2,690	2,820	2,960	3,110	
1979	1980	1981	1982	1983	1984	1985	1986	1987	1088
	2,100 600 408 192 403,200 150,000	2,100 600 408 192 403,200 150,000 2,210 602 416 186 411,060 155,000	2,100 600 408 192 403,200 150,000 2,210 602 416 186 411,060 155,000 2,320 602 424 178 412,960 162,000	2,100 600 408 192 403,200 150,000 2,210 602 416 186 411,060 155,000 2,320 602 424 178 412,960 162,000 2,440 599 432 167 407,480 170,000	2,100 600 408 192 403,200 150,000 2,210 602 416 186 411,060 155,000 2,320 602 424 178 412,960 162,000 2,440 599 432 167 407,480 170,000 2,560 598 441 157 401,920 180,000	2,100 600 408 192 403,200 150,000 2,210 602 416 186 411,060 155,000 2,320 602 424 178 412,960 162,000 2,440 599 432 167 407,480 170,000 2,560 598 441 157 401,920 180,000 2,690 596 450 146 392,740 195,999	2,100 600 408 192 403,200 150,000 2,210 602 416 186 411,060 155,000 2,320 602 424 178 412,960 162,000 2,440 599 432 167 407,480 170,000 2,560 598 441 157 401,920 180,000 2,690 596 450 146 392,740 195,999 2,820 594 459 135 380,700 196,000	2,100 600 408 192 403,200 150,000 2,210 602 416 186 411,060 155,000 2,320 602 424 178 412,960 162,000 2,440 599 432 167 407,480 170,000 2,560 598 441 157 401,920 180,000 2,690 596 450 146 392,740 195,999 2,820 594 459 135 380,700 196,000 2,960 593 468 125 370,000 200,000	2,100 600 408 192 403,200 150,000 2,210 602 416 186 411,060 155,000 2,320 602 424 178 412,960 162,000 2,440 599 432 167 407,480 170,000 2,560 598 441 157 401,920 180,000 2,690 596 450 146 392,740 195,999 2,820 594 459 135 380,700 196,000 2,960 593 468 125 370,000 200,000 2,960 591 477 114 354,540 202,000

8. Projections of the Balance Sheets:

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To make projections of the balance sheets, each important item which appears in it should be projected:

a. Projections of debtors including receivables:

To illustrate; with reference to the previous example the following data are available:

- i) Projections of sales: £000's
- 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1,260 1,330 1,400 1,460 1,530 1,600 1,680 1,760 1,840 1,930

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ii) Upon the assumption that the trends of the past performance show that the credit sales were 70% of gross sales, credit sales would be: £000's

- iii) The average collection period is 2 months, and the actual balance of debtors including receivables at the end of 1978 was £500,000.

2 months =
$$\frac{\text{Projected sales in year 1979}}{\text{Debtors at the end of 1978 + projected balance at}}$$

$$\frac{\text{the end of 1979}}{2}$$

$$2 = \frac{880,000}{500,000 + x}$$

$$X = 880,000 - 500,000 = 380,000$$

The projected balance of the debtors at the end of year 1979, then, will be £380,000. Using the same technique, projections of debtors for the other years can be carried out.

b) Projections of Creditors:

Using the same technique used to carry out projections of debtors, projections of creditors can be reached.

c) Projections of Cash Flows:

As pointed out in the text, projections of cash flows can be reached by the use of the receipts and payments method, in which cash transactions only must be taken.

9. Projections of Funds Flow:

To illustrate how to develop projections of funds flow, suppose that the actual balance sheet at the end of year 1978 and the projected one at the end of year 1979 are as follows:

Actual & Projected Balance Sheets for the years 1978/79

Assets

Liabilities

1979	Total		400,000	1,380,000		255,000	220 000	2,435,000		010 000		4,445,000
Projected	Sub-total		2,000,000	300,000	45,000		270,000		950,000	700,000 360,000		4
Actual 1978	Total		000,009	000,006		270,000		1,990,000		1 610 000	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	2,600,000
	Sub-total		1,200,000	300,000	30,000		200,000		000,008	500,000 310,000		
		Fixed Assets:	Freehold property Plant & machinery Less Depreciation	Motors & vehicles	Less Depreciation		Furniture & fixtures Less Depreciation		Stock Stock	Debtors Cash at Bank	The second secon	
Projected 1979	Total		About the state of	2,325,000				980,000			1,140,000	4,445,000
	Sub-total		1,500,000 120,000 200,000	000,505	T	200,000	3000,000	750,000		120,000 640,000	000 f 000 f	
1978	Total			1,450,000				1,150,000		igh Veleponhiller op Oppolygapib dig maante een een met een ee	1,000,000	2,600,000
Actual 1	Sub-total		1,000,000 50,000 100,000	300,000		200,000	150,000	500,000		100,000	000,000	
		Share capital	Ordinary Shares Capital Reserve General Reserve	Retained Profits	Long-term 11abilities	Loans	Taxation	Debentures	Current 11ab111tles	Taxatlon Creditors	Bank overdraits	

Projection of Funds Flow As at 31.12.1979 (£000's)

	Act:			ected	Funds Flow		
	Debit	Credit	Debit Credi		Applications	Sources	
Current Assets Stock Debtors Cash at Bank Current	800 500 310		950 700 350		150 200 50		
Liabilities Taxation Creditors Bank Overdrafts Working Capital		100 300 600 610		120 640 380 870	220	20 340 260	
	1,610	1,610	2,010	2,010	620	620	
Working capital	610		870		260		
Fixed assets: Freehold property Plant & machinery Motors & vehicles Furniture & fixtures	600 1,200 300 200		400 2,000 300 270		800	200	
Liabilities: Ordinary Shares Capital reserve General reserve Retained profits Long-term loans Long-term taxation Debentures		1,000 50 100 300 500		1,500 120 200 505 200 30 750	300	500 70 100 205	
Accumulated Dep. Plant & machinery Motors & vehicles Furniture & fixtures		240 30 40		440 45 50		200 15 10	
	2,910	2,910	3,840	3,840	1,550	1,550	

From the above projection we can derive a precise projection of funds flow in 31.12.79 as follows:

Sources of funds: £000's			
Decrease in freehold property	200		
Increase in ordinary shares	500		
Increase in capital reserve	70		
Increase in general reserve	100		
Increase in retained profits	205		
Increase in debentures	250		
Increase in depreciation of plant & machinery	200		
Increase in depreciation of motors & vehicles	15		
Increase in depreciation of furniture & fixtures	10	1,550	
		1,950	
Application of funds: £000's			
Increase in plant & machinery	800	W. d	
Increase in furniture & fixtures	70		
Decrease in long-term loans	300		
Decrease in long-term taxation	120		
Increase in working capital	260	1,550	
Projected alterations in working			
Capital in 31.12.79			
Sources of funds: £000's		- 1367年 	
Increase in taxation	20		
Increase in creditors	340	360	
		360	
Application of funds: £000's			
Increase in stock	150		
Increase in debtors	200		
Increase in cash at bank	50		
Decrease in bank overdraft	220	620	
Increase in working capital		260	K

Appendix Two:

The University of Aston in Birmingham

Management Centre

Finance and Accounting Subject Group

Researcher's Name: Muhammad Mounir Tolba

Questionnaire

Designed to Examine the Role of Accounting in Planning and Control in the Egyptian Iron and Steel Co., "Hadisolb".

October 1979

Questionnaire 1

Origin and History

- 1.1. Could you tell me something about the corporation's history?
 - a. When it began?
 - b. Who founded it, and how it was founded?
 - c. Reasons for foundation.
 - d. Governmental involvement in foundation precise nature of.

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- 1.2. Specify in detail the development of the organisation to its current structure.
- 1.3. Is there government intervention in the structure of the organisation.

 (Please tick)

 YES

 NO
- 1.4. If the answer to Question 3 is YES, please specify in detail what sort of intervention.
- 1.5. What are the basic activities of top management?
 Please specify in detail for each manager, including authorities and responsibilities.
- 1.6. Having put the open door economy system into practice, have there been developments in the way top management and organisation structure are formulated?
- 1.7. Is management centralized or decentralized?

 (Please tick whatever applicable) Centralized Decentralized
- 1.8. If management is centralized;
 - a. What are, in your opinion, the benefits that the corporation gains from centralization?
 - b. Are these the essential reasons for centralization? If not, what are the essential reasons?
- 1.9. If management is decentralized;
 - a. What are, in your opinion, the benefits that the corporation gains from decentralization?
 - b. Are these the essential reasons for decentralization? If not, what are the essential reasons?
- 1.10. What is the status of the corporation?

 (Please tick the one applicable)

 Independent

 Subsidiary Unit

 Closed Company
- 1.11. If the corporation is a subsidiary unit, does it have a separate legal identity?

1.12. Has the corporation subsidiaries of its own? YES NO If YES, please list including the location of each subsidiary.

1.13. Are all your operations carried out on the central site?

YES NO

1.14. If the answer to Question 13 is NO, please specify where else your operations are carried out and the type of each operation.

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1.15. How many employees are working in the corporation?

Please specify the number working in the corporation as a stall whole and in each subsidiary (if any).

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Questionnaire 2

Planning and Control

2.1. Do you have a planning system for the corporation as a whole? Please specify in detail the nature of the planning system.

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- 2.2. Do you have a corporate planner in the organisation structure?

 (Please tick)

 YES

 NO
- 2.3. If the answer to Question 2 is YES, please specify in detail reasons for having such a job and the authority and responsibilities attached to him.
- 2.4. Is there any government intervention which authorises the corporation to have a planning system?
 Please specify in detail.
- 2.5. Planning is normally divided into three levels according to the planning period being covered. Are these the three levels which apply within your own organisation?
 - a. Long-range planning(Please specify the period it covers)
 - Short-range tactical planning.(Please specify the period it covers)
 - c. Short-range technical planning.(Please specify the period it covers)
- 2.6. To plan, we have to decide on objectives and goals to be achieved at the end of the planning period. Who decides on those objectives and goals for the corporation? (Please specify in detail)
- 2.7. Organisations do have several objectives, but often they have one main and specific purpose that of profit.
 Is that true for the corporation
 YES
 NO
- 2.8. If the answer to Question 7 is YES, please specify in detail the corporation's profit philosophy, and how the profit objective has been determined?
- 2.9. If the answer to Question 7 is NO, specify what objectives the corporation has for the current planning period, both for the long and short term, and how those objectives were decided upon?
- 2.10. Is there any government intervention in the determination of the corporation's objectives.

 (Please specify what sort of intervention)
- 2.11. After determining objectives and goals, are these communicated to members of the corporation?

 (Please specify in detail)

- 2.12. Who decides on the tasks that are to be performed in order to achieve objectives and goals of the corporation?
 (Please specify in detail)
- Who decides on the resources that are to be used to carry out these tasks?

 (Please specify in detail)

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Questionnaire 3

Corporate Appraisal

The objective of this appraisal is to find out where the organisation is at the present time in order to determine the gap which has to be filled in order to achieve the objectives at the end of the planning period.

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- An internal appraisal has to be carried out to determine weaknesses and strengths within the organisation.
- An external appraisal has to be carried out to determine opportunities and threats in the environment.

3.1. Internal Appraisal

1. Do you carry out the internal appraisal to assess strengths and weaknesses within the corporation?

YESdi NOSTVO

If the answer is YES, please specify in detail including the development of such an appraisal into the current practice.

2. Financial Appraisal

The following questions will be concerned with the financial appraisal into its current practice.

2.1. Financial External Appraisal

- a. Do you compare the corporation's results with other organisations? $\qquad \qquad \text{YES} \qquad \text{NO}$
- b. If the answer to Question (a) is NO, please specify what difficulties you face which prevent you from carrying out such an important appraisal.

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- c. If the answer to Question (a) is YES, specify whether the external organisations are local or international.
- d. Do you carry out an external appraisal concerning "Profit Growth", meaning the comparison of your return on total capital employed for the past few years, whether growing or declining, with similar organisations?
- e. If the answer to Question (d) is NO, why is such an appraisal not carried out?

 Specify in detail the difficulties which you face in carrying it out.
- f. If the answer to Question (d) is YES, specify on what basis you calculate your return on total capital employed.

- g. In computing your rate of return on total capital employed, do you consider net profit before or after interest and tax?

 Explain why you choose any of them.
- h. How do you compute the total capital employed?

- i. What is the management view about computing the return on investment?
 - Does management consider net profit is that before tax and interest?
 YES
 NO

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If not specify management's view of what net profit constitutes.

- Does management consider total capital employed as follows?

Total capital employed = ordinary shares + long-term loans + overdrafts + retained profits including reserves and provisions.

If not, please specify the management approach to computing the total capital employed.

j. What is the shareholders' approach to computing the rate of return on investment?

Please specify in detail including their point of view for computing net profit and total capital employed.

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k. Do you compute the earnings per share as a financial yardstick?

YES NO

If YES, please specify in detail including the basis on which it is computed.

1. If the answer to Question (k) is YES, it will be easy for the corporation to compute the price/earnings ratio which is as follows:

The price/earning ratio = Market price per share

Earnings per share

Do you compute this ratio? If so, specify on what basis.

- m. If the answer to Question (1) is NO, please specify what difficulties you face which prevent you from doing so.
- n. If the answer to Question (1) is YES, it follows that you can compute the capitalisation ratio which is:

The capitalisation ratio = Earnings per share

Market price per share

YES

- o. If the answer to Question (n) is NO, what difficulties do you face which prevent you from doing so?
- p. If you compute the capitalisation ratio in a way different from that mentioned in Question (n) please specify in detail.

2. Financial Stability

The financial stability or financial internal appraisal can be assessed by using the following ratios:

a. The Acid Test Ratio or Quick Ratio which can be computed as follows:

The Acid Test Ratio = <u>Cash + Receivables + Short-term Investments</u>

Current Liabilities

b. The Current Ratio which can be computed as follows:

Current Ratio = Current Assets

Current Liabilities

- c. Capital employed to working capital. To assess how much of the working capital is financed by the corporation's permanent capital.
- d. Capital employed to fixed assets.

 To assess how much of the fixed assets are supplied by permanent capital.
- e. Equity to equity + long-term liabilities.

 To assess how much of the corporation's permanent capital has been supplied by ordinary shareholders.
- f. The debt-equity ratio or capital gearing which can be computed as follows:

Capital gearing =

Equity capital = Ordinary shares + Retained Profits + Reserves

Long-term debt

Long-term debt

The objective of computing this ratio is to assess whether the organisation is high or low geared.

- Which of those ratios do you use to assess the corporation's financial stability? Please specify in detail including:
 - Any other ratios you use to assess the financial stability
 - Attach your financial internal appraisal for the past two years.

3.1.1.3 Financial Facilities

- a. Could you specify how you determine the liquid resources that the corporation possesses?
- b. How do you know that the liquid resources are fully utilized?

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- c. Could you determine the effect of the following on the corporation's cash flow?
 - large capital projects
 - seasonal fluctuations
- d. If the corporation needs to raise additional capital, what sort of examinations do you carry out to assess the availability of additional capital and its costs? Specify in detail.

3.1.2. Profitability

3.1.2.1. Analysis of Sales and Profits

- a. Do you carry out an analysis of your sales and profits to ascertain from what activities the corporation derives the bulk of its profits and cash?
- b. If the answer to Question (a) is NO, what difficulties do you face which prevent you from carrying out this analysis?
- c. If the answer to Question (a) is YES, specify in detail how you carry it out and whether your analysis to sales and profits includes the following:
 - Sales and trends of profitability of each division
 - Sales and trends of profitability of the company as a whole

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- Sales and trends of profitability of each product.
- d. Does your analysis include the determination of the relative profitability of customers and markets "home and export".

 Specify in detail.
- e. Do you carry out an analysis of the corporation's sales mix to determine the most profitable products in the most profitable markets?

 Specify in detail how you carry out this analysis.
- f. In carrying out the internal appraisal of the corporation it is very important to recognise the effect of selling prices on volume and, therefore, on unit costs and margins.

 Do you carry out this analysis? Specify in detail.
- g. Do you offer your customers discounts?
- h. If the answer to Question (g) is YES, do you give attention to that when planning for future sales and profits?

 Specify in detail.

3.1.2.2. Return on Total Assets Employed

- a. In assessing how efficiently capital is employed, do you use this ratio? ${\tt YES} \qquad {\tt NO}$
- b. If the answer to Question (a) is NO, what difficulties do you face which prevent you from doing so?
- c. If the answer to Question (a) is YES;
 - i. Specify how you do it, and attach a copy of the assessment for the last two years and attach a copy of the assessment
 - ii. Does the assessment breakdown into
 - Main Activities
 - Main Products

3.1.2.3. Manufacturing

- a. In carrying out an internal appraisal, do you carry out an appraisal of manufacturing? Specify please.
- b. In carrying out a manufacturing appraisal, which of the following do you do?
 - i. A review of the effectiveness of works' organisations;
 specify
 - ii. A review of staffing and level of competence; specify
 - iii. The general condition of plant, building and equipment; specify
- c. Do you compare the corporation's productivity with similar organisations? Specify.
- d. Which of the following do you use to measure the corporation's productivity:
 - i. Added value trends per direct and indirect employee.
 - ii. Estimated performance indices.
 - iii. What else?

Specify.

3.2. The External Appraisal

The external or environmental appraisal is carried out to assess opportunities and threats in the environment in which an organisation survives.

1. In the first place, do you carry out such an appraisal?
YES

- 2. If the answer to Question 1 is NO, which of the following reasons do you consider:
 - Lack of awareness of this need.
 - b. No need to carry it out.
 - Any other reasons, specify.
- 3. If the answer to Question 1 is YES, does your external appraisal include the following:
 - a. Competitors' appraisal; to examine what actions the competitors might take over the relevant future that will affect the corporation at the national or international level.

- b. A political appraisal; to determine whether any political changes at the national or international level may affect the corporation.
- c. An economic appraisal; to determine whether any economic changes at the national level will affect renumeration rates, availability of labour, purchasing patterns, and prices.
- d. Social appraisal, to determine whether any changes in education, wealth, life styles, attitudes to work, the composition of the society, will affect the corporation.
- e. Technological appraisal; to recognise whether there are any technological changes, which may be e.g.
 - i. A substitute product may appear
 - ii. New methods of manufacturing or distribution of existing products may be discovered.

Please specify in detail, including any other external factors you consider in carrying out the external appraisal.

3.3. Statement of Appraisal

- Having done the appraisal, do you draw up a statement summarising the main factors emerging?

 YES
 NO
- 2. If the answer to Question 1 is YES, does the statement include the following:
 - a. Strengths inside the corporation.
 - b. Weaknesses inside the corporation.
 - c. Opportunities in the environment.
 - d. Threats in the environment.
 - e. What else? Please specify.

- f. Please attach a copy of the statement for the last two years.
- 3. If the answer to Question 1 is NO, please answer the following questions:

or product grounding

- a. What difficulties do you face which prevent you from doing so?
- b. What method do you use for preparing both strategies and action plans normally built on such a statement?

3.4. The Action Plan

- 1. Do you design an action plan?
- 2. If the answer to Question 1 is YES, does the action plan provide the following?
 - a. Maintain or enchance strengths.
 - b. Correct weaknesses.
 - Counter or minimize threats.
 - d. Evaluate or implement opportunities.
 - e. What else? Please specify.
- 3. If the answer to Question 1 is NO, please circle the one applicable:

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- a. A lack of awareness of this need.
- b. No need to design such a plan . Reserve
- c. The corporation has its own tool, specify.
- d. Any other reason? Specify.
- 4. The action plan must lead to actions; does the action plan you design ensure the following? Please circle which is applicable.
 - a. Defines the course of action to be taken.
 - b. Allocates managerial responsibilities for this action.
 - c. Establishes final and intermediate goals.
 - d. Provides a timetable for completion.
 - e. What else does your action plan ensure? Please specify.

Questionnaire 4°

Products and Markets

- 1. What product range/product groups/products does the corporation produce at the present time?
- 2. Has the corporation had significant changes in products and markets in recent history? -- and corporation's share of the Please specify in detail.
- 3. What are the markets for the present products? Specify with % breakdown of each product group to each market.
- What is the market share for each product group/product within each market?
- How is the market itself changing (Tick whatever applicable)

Growing Declining

At fast rate At slow rate

How is your market share changing?

Declining Growing

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NO

At fast rate At slow rate

- What product development is taking place? Is it adequate to the 7. needs of the situation?
- Are individual product profitabilities known? 8. an ing taong ping a mary bag i 🕸 🕬
- If the answer to Question 8 is YES,
 - Please specify the profitability of each product
 - On what basis is the profitability of each product computed? Specify in detail.
- Are the volume, price, investment and cost relationships understood 10. and acted upon? YES NO
- If the answer to Question 10 is NO, what problems do you face in 11. determining these relationships? Please specify in detail.
- Does the corporation determine future demand for its products 12. and prepare a sales forecast? NO
- If the answer to Question 12 is NO, how does the corporation determine future demand for its products? Please specify in detail.
- If the answer to Question 12 is YES, which method or methods does the corporation use in carrying out its sales forecast? Please circle the one or ones that applied.

- Utilize Sales Department estimates Utilize past sales trends of the corporation
- Utilize new product plans С.
- Utilize correlation of corporation sales with general economic d. trends
- Utilize market surveys
- Utilize industry forecasts and corporation's share of the f. with and add new product festwood potential
- Utilize production capacity g.
- Utilize survey of corporation executive's opinions h.
- Utilize promotion plans
- Utilize salesmen's estimates į.
- Utilize correlation of corporation sales with industry k. economic indicators
- Utilize financial capacity
- Utilize competitors' activities m.
- Utilize outside consultants
- Utilize time series analysis.
- Utilize statistical demand analysis
- Other methods, please specify in detail. which the firm sharply redships
- How often does the corporation prepare its sales forecast? 15. acceleration of sales deckips of
- 16. What is the probable life cycle of present products?
- It is known that each product has its own life cycle moving from 17. the introduction or initiation stage, the growth stage, the maturity stage, to the decline stage. Do your products pass through those stages. YES
- If the answer to Question 17 is NO, please answer the following questions:
 - What stages do your products have within their life cycle? Please specify in detail determining the characreristics of each stage and the marketing strategies adopted in each.
 - What in your opinion makes your products life cycle different?
- If the answer to Question 17 is YES, please omit Question 18 and answer the following question:

Which marketing strategies of the following the corporation adopts within each product life cycle. Please circle the one applicable:

- Marketing strategies within the introduction or initiation stage
 - A high profile (high price and high promotion level) i)
 - A selective penetration strategy (a high price and a low ii) promotion level)

- iii) A pre-emptive penetration strategy (a low price and a heavy promotion level)
- iv) A low profile strategy (a low price and a low promotion level)
- v) Other strategies (please specify)
- b. Marketing strategies within the growth stage. Please circle the one applicable.
 - i) Improve product quality and add new product features and models.
 - Searches out new market segments to enter.
 - iii) New distribution channels.
 - iv) Lower prices to attract sensitive buyers into the market.
 - v) Other strategies (please specify)
- c. Marketing strategies within the maturity stage. Please circle the one applicable.
 - i) A continuation strategy; in which the firm continues its past marketing strategy until the product dropped from the line.
 - ii) A concentration strategy; in which the firm concentrates its resources only in the strongest markets and channels of distribution.
 - iii) A milking strategy in which the firm sharply reduces its marketing expenses to increase its current profits which will lead to the acceleration of sales decline.
 - iv) Other strategies (please specify in detail)
- 20. Which of the following pricing methods does the corporation apply when pricing its products?

 Please circle the one applicable.
 - a. Profit margin pricing; in which the selling price is determined by computing the full cost of each product (which is the direct costs plus a fair amount of the allocated costs) plus a profit margin.
 - b. Contribution margin pricing.
 - Other methods of pricing.
 Please specify and explain in detail.
- 21. Is there any governmental or institutional involvement in pricing policies?
- 22. What are your competitors? Specify by product areas.
- 23. What are your product/market strengths and/or weaknesses?

24. Could you specify please what are the methods of selling which the corporation adopts and why?

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- 25. What are the corporation's methods of distribution? Please specify in detail.
- 26. What is the role of accounting in product/market analyses?

Questionnaire 5

Financial Planning

Since plans for products, markets, facilities, etc., will all require funds, there must be planning to determine where the necessary funds are to come from.

This section of the Questionnaire will deal with financial planning and will concentrate upon the following:

1. Evaluating Alternative Strategies

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- 2. Planning of Finance
- 3. Accounting Projections
- 4. The Control Aspects

5.1. Evaluating Alternative Strategies

1. Do you carry out a forecast of capital expenditure? YES NO

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- 2. If the answer to Question 1 is YES, please specify for what periods? (viz. long-term, short-term)
- 3. Do you often face the problem of having to examine a large number of alternatives?
- 4. If the answer to Question 3 is NO, could you please specify how alternate strategies arise?
- 5. If the answer to Question 3 is YES, is it possible to evaluate precisely all these alternatives?

 YES

 NO
- 6. If the answer to Question 5 is YES, please specify in detail how the process of evaluating alternative strategies is carried out and the techniques used.
- 7. If the answer to Question 5 is NO, which of the following criteria do you use to test any proposed strategy to reduce the large number of alternatives to a manageable number?
 - a. The strategy fulfills the target which satisfies any group of beneficiaries.
 - b. The corporation has the necessary competence to carry it out.
 - c. The strategy reduces the corporation's outstanding weaknesses.
 - d. The strategy allows the corporation to exploit any opportunities that may occur in the future.
 - e. The strategy reduces one or more of the severe threats that may face the corporation.
 - f. The strategy does not call for an action which may become objectionable on moral or social grounds.
 - g. What else, please specify.

- 8. After testing the huge number of alternatives according to the criteria listed in Question 7, it follows that you will have a "short list", which contains the most promising alternatives which might fulfil the corporation's objectives.

 Do you have a "short list"?

 YES

 NO
- 9. If the answer to Question 8 is YES, please attach a copy of this list for the last two years.
- 10. If the short list contains projects which involve the cost element, do you consider that the best alternative is the one with the lowest cost?
- 11. If the answer to Question 10 is NO, what criterion do you use when evaluating projects which involve costs only, with investment and revenue unaffected?

 Please specify in detail.
- 12. If the projects involve both revenue and costs, do you consider that the best alternative will be the one which yields the highest net profit?

 YES NO
- 13. If the answer to Question 12 is NO, what then is the criterion which you consider when evaluating those projects which involve both revenue and costs?

 Please specify in detail.

If the projects involve cost, revenue, and investment, it will be a different matter, as it will imply the use of certain techniques for capital investment appraisal, which the following part of the Questionnaire will deal with.

5.2. Capital Investment Appraisal

- 1. After having arrived at a short list which contains a manageable number of projects, do you employ a quantitative appraisal to choose the most promising ones which fulfil the corporation's objectives?
- 2. Do you have a committee to authorise capital expenditures?

2. Do you have a committee to detail YES NO

- 3. Is there any government intervention in authorizing capital expenditures?
 YES
 NO
- 4. If the answer to Question 2 is NO, who authorizes any capital expenditures in the corporation?

 Please specify if the authority is outside the corporation.
- 5. If the answer to Question 2 is YES, could you specify how this committee is structured and the number, titles, and quality of representatives?

- 6. When considering the purchase of fixed assets, do you estimate the following:
 (Please circle whatever applicable)
 - a. Increase in sales expected.
 - b. Reduction in costs.
 - c. Costs to be incurred.
 - i. Purchase price
 - ii. Running costs
 - d. What else do you estimate, please specify in detail.
- 7. In estimating running costs, which of the following factors are included:
 (Please circle whatever applicable)
 - a. Direct labour.
 - b. Direct material.
 - c. Fixed overhead costs.
 - d. Variable overhead costs.
 - e. What else, specify.
- 8. For what future period do your estimates cover?
 - a. A short-term period
 - b. A long-term period.
- 9. If your estimates cover both short and long-term periods, are the short-term estimates an integral part of long-term estimates?

ÆS NO

- 10. If the answer to Question 9 is YES, specify how integration is realised.
- 11. Do you consider the cash flow position of the corporation when considering capital expenditure proposals?

 YES NO
- 12. Do you compare expected cash receipts and payments before making a capital expenditure decision?

 YES NO
- 13. Do you employ budgetary control? YES NO
- 14. If the answer to Question 13 is YES, is the system for capital expenditure decisions part of budgetary control?
- 15. In doing appraisal for capital investment proposals, which of the following methods do you apply?
 - a. Pay-back period.
 - b. Discounted cash flow.
 - c. Rate of return on investment.
 - d. Average rate of return on investment.

- e. Other methods(s), please specify.
- 16. If discounted cash flow is applied, which of the following is used. (Please circle the one applicable)
 - a. Trial and error method.
 - b. Net present value.
 - c. Other methods, please specify.
- 17. Are there any other non-financial criteria against which capital investment proposals have to be assessed? YES NO If YES, plesse specify in detail the non-financial criteria which you consider.
- 18. When a project is completed and is in operation, do you make any analysis to compare the actual profitability with the profitability estimated?

 YES NO
- 19. If the answer to Question 18 is NO, could you please specify why you are not carrying out such an analysis and what difficulties do you face which prevent you from carrying it out.

5.2. Planning of Finance

- 1. Having decided on the total amount of funds which the corporation needs, is there a committee in the corporation whose job it is to decide how this amount of funds will be provided? YES NO
- 2. If the answer to Question 1 is NO, could you please specify whose responsibility it is to decide on how the funds required will be provided.
- 3. If the answer to Question 1 is YES, please specify how this committee is structured, and the numbers, titles and quality of representatives.
- 4. Is there any government intervention which specified the way in which the corporation obtains the funds required? YES NO
- 5. If the answer to Question 4 is YES, please specify what sort of intervention.
- 6. Does the Government finance the corporation's fund requirements in part or in full?

 Specify in detail.
- 7. Could you please specify what are the corporation's main sources of funds.
- 8. Do you consider the capital structure of the corporation when deciding on sources of finance?

 YES

 NO
- 9. If the answer to Question 9 is YES, which of the following do you consider when deciding on sources of finance?

 Please circle whatever applicable.
 - a. The relationship between sources and usages of funds.
 - b. The relationship between long-term sources and long-term usages.
 - That equity capital should be the essential part of the corporation corporation's funds. (Specify why in the case of your corporation)
 - d. The cost of capital.
 - e. Gearing or leverage.
 - Other considerations specify in detail.
- 10. Which of the following factors related to the nature of the corporation do you consider when deciding on sources of finance? Please circle whatever applicable.
 - a. Industry stability.
 - b. Rapidity of assets turnover.
 - c. Size of physical plant requirements.
 - d. Length of production period.
 - e. Distribution methods.

- f. General level of profits.
- g. Sales terms.
- h. Growth patterns.
- 11. Which of the following factors related to the corporation's management do you consider when deciding on sources of finance? Please circle whatever applicable.

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- a. Management's decisions that certain risks have to be covered by insurance.
- b. Management's decisions as to necessary liquidity.
- c. Management's decisions as to the extent to which property will be purchased rather than leased or rented.
- d. Management's decisions as to both scale of operations and capacity, which are justified by the future outlook for the corporation.
- 12. Have you faced, or do you often face, problems such as the following?

 Please tick whatever applicable.
 - a. The inability to carry out an inventory commensurate with optimum operating level.
 - Restriction of buying policies and inability to take advantages or quantity or cash discounts.
 - c. Chronic pressure on cash position, which will impair credit standing.
 - d. Inability to make necessary outlays for machinery and equipment to improve efficiency.
 - e. Inability to take advantage of sudden changes in business opportunity.

5.3. Accounting Projections

- Do you construct accounting projections for the long-term planning period?
 YES
 NO
- 2. If the answer to Question 1 is NO, could you please specify what difficulties do you face which prevent you from doing so?
- 3. Projections are rough guides about the future based upon past trends and assuming that the future will be the same; do you do forecasts about the future to adjust those projections according to the factors which appear to affect the items upon which the projections are built?

 YES

 NO
- 4. If the answer to Question 3 is YES, could you please specify what are the forecasts you do, and whether or not they have a great effect upon the items upon which your projections are built. Could you please make available to me the forecasts which you have done for the last two years?

- retropet is the Which of the following projections do you construct? 5. Please circle whatever applicable.
 - Projections of profit.
 - Projections of balance sheet position. Ъ. are existen éves, millé bos
 - Projections of funds flow. c.
 - Other projections, please specify. d.

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Which of the following do your projections of profit include? 6. Please circle whatever applicable.

- Projections of sales.
- Projections of variable costs.
- Projections of fixed costs.
- Projections of profits. d.
- Other projections, please specify.
- Do your projections cover the whole of your long-term planning 7. period?
- If you construct projections of balance sheet positions, please 8. specify how you do projections for the following items:
 - Projections of debtors, including receivables.
 - Projections of creditors, including payables.
 - Projections of cash flows.
- If you construct projections of funds flow, could you specify on 9. what basis these projections are built?
- Can you easily derive from the projections of funds sflow a statement which includes the sources and usages of funds at the 10. beginning of each year of the long-term planning period?
- Do you know the amount of any increase or decrease in the working capital at the beginning of each year compared with previous 11. NO YES year?

Questionnaire 6

Financial Accounting

- Could you please specify what are the sections of your accounting 1. department?
- I know that your corporation, being in the public sector, uses the Standardised Accounting System which has been designed to 2. meet the public sector accounting requirements. Could you please give brief details of the standardised accounting system.

- Could you please specify the financial accounting records used by 3. the Accounting Department in the corporation. Please attach a copy of each of these records. If you use a computer, please give the table headings.
- Could you please specify the functions and responsibilities of 4. the Accounting Department. If these functions and responsibilities are written down, could you please attach a copy.
- Do the responsibilities of the Financial Accounting Department 5. include the preparation of period reports? YES
- If the answer to Question 5 is NO, could you please specify who is 6. responsible for the preparation of periodic reports.
- If the answer to Question 5 is YES, could you please describe these 7. reports, to whom they are circulated, and how frequently. Please attach a copy of each type of report.
- What are the sources of information included in these reports? 8.
- Do you face difficulties in getting information from your present 9. financial accounting records? YES NO
- If the answer to Question 9 is YES, could you please specify the 10. difficulties which you face and the reasons for them.
- Have you a financial accounting code? NO YES If YES, please attach a copy of this code.
- Does the standard financial accounting system demand certain statements YES and accounts? If YES, please specify the required statements and accounts.

Questionnaire 7.

Cost Accounting

- Do you have a complete system of cost accounting?
- Is the cost accounting system 2.
 - separate from the financial accounting system
 - Integrated with the financial accounting system. b.

Circle whatever applicable.

- Is there any uniform cost accounting system designed for the public 3. sector?
- If the answer to Question 3 is NO, does the Standardised Financial Accounting System outline the general framework of a uniform cost 4. NO YES accounting system?

- If the answer to Question 4 is YES, please specify in detail the 5. framework for uniform cost accounting system outlined by the Standard Financial Accounting System.
- Is the corporation divided into cost centres for the purposes of 6. cost accounting? NO YES
- If the answer to Question 6 is NO, is the corporation as a whole 7. considered one unit for cost accounting purposes?
- If the answer to Question 6 is YES, please specify the cost centres 8. and the functions of each.
- In determining the activity level of each cost centre, do you consider 9. the total activity objectives for the corporation? NO
- Do you divide cost elements according to their nature and behaviour? Please circle whatever applicable.
 - Direct Indirect
 - Variable Fixed h.
- Do you separate controllable costs from uncontrollable costs? 11.
- If you divide costs into variable and fixed, could you please 12. specify on what basis?
- Do you have a special code for cost elements? 13. If YES, please attach a copy.
- What are the cost accounting records used in your corporation? Please attach a copy of these records. If you use a computer, please give the table headings.
- Do you verify the cost accounting results through comparisons with financial accounting results? NO YES

If YES, what are the procedures?

- How do you allocate the cost of the following items to each cost unit?
 - Transport cost of raw materials. а.
 - Workshop repairs and maintenance.
 - Storage costs. c.
 - Administration costs.

Questionnaire 8.

Materials

- What are the raw materials used in the corporation? Please give details.
- I know that you obtain raw steel from your mines in Aswan, are the mines in Aswan considered a separate subsidiary? 2. NO

- 3. If the answer to Question 2 is NO, could you please specify how you price the raw steel transported from Aswam to main operating units in Helwan?
- 4. If the answer to Question 2 is YES, do the mines in Aswan price the raw steel?

 If YES, on what basis?
- 5. Do you import other raw steel from foreign centres?

YES NO

- 6. If the answer to Question 5 is YES, please circle whatever is applicable.
 - a. The imported steel is different from that of Aswan's and consititute no problems in pricing.
 - b. The imported steel is the same as that of Aswan.
- 7. If the imported steel is the same as that of Aswan, could you please specify the following:
 - a. How you solve the problem of material cost. (Specify)
 - b. Does this problem constitute yet another in the pricing of finished products. (Specify)
- 8. What elements do you include in the total cost of raw materials?
- 9. Is there a separate store for each kinds of material?
 YES NO
- 10. Are there material sub-stores for different operations?

 YES NO
- 11. If the answer to Question 10 is YES, is there a control system between main and sub-stores?
- 12. Which of the following methods of raw materials pricing do you use for materials issued to main operating units?

 Please circle whatever applicable.
 - a. First in, first out. (F.I.F.O.)
 - b. Last in, first out. (L.I.F.O.)
 - c. Average price.
 - d. Standard price.
 - e. Next in, first out. (N.I.F.O.)
 - f. Replacement cost.
 - g. Highest in, first out. (H.I.F.O.)
- 13. What are the control documents of the main and sub-stores? Please attach a copy of each document.
- 14. What are the control records? e.g. bin cards, stores ledger, etc.,

Questionnaire 9

Labour

- DE OTOCKES SEA 186 1 How do you estimate the number of workers required by the 1. corporation? STORE 3 OF YES SLOES LENGTH TO THE POLICE
- Country to inco amai teams. Which of the following methods do you use to calculate workers' 2. wages:

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- Time-related basis. a.
- Piecework-related basis
 - Straight piecework
 - ii. Differential piecework
- Other methods, please specify.
- What are the "associated labour costs" in addition to the actual 3. cash payment of wages? Please specify in detail.
- How do you allocate the wages to cost centres?
- Does the corporation provide any social services to workers? 5. YES
- If the answer to Question 5 is YES, 6.
 - Do you consider social service to workers as a cost element? NO YES
 - If YES, how do you allocate this to cost centres? Ъ.
- What are the records used for recording wages in the corporation? 7. Please attach a copy of these records. If you use a computer, please give the table headings.
- What are the control documents for wages? Please specify and attach a copy of each document. 8.
- Are the wages documents used for recording in the cost and financial accounting records? YES

If YES, please indicate the flow of documents.

Questionnaire 10.

Budgetary Control System

- NO YES Do you employ a budgetary control system?
- If YES, is the budgetary process linked to a longer-term planning 1. 2. NO YES process?
- If the answer to Question 2 is YES, do you divide the target which has to be achieved at the end of the long-term period into annual 3. targets to be achieved at the end of each year? NO YES

4. If the answer to Question 3 is NO, please specify the link between the longer-term process and the budgetary process.

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- 5. If the answer to Question 3 is YES, please specify the basis on which you divide the long-term target into annual budgets.
- 6. Who designs and constructs the budget?
- 7. What are the basic procedures for the design of budgets?
- 8. Could you specify to what extent the budget procedures are prescribed by Head Office.
- 9. Could you please specify in detail the various budgets which you use.
- 10. Do you use flexible or inflexible budgets?
- 11. If you use flexible budgets, please specify the activity levels on which the flexible budget is based.
- 12. If standards are used, who is responsible for fixing these standards?
- 13. Could you please specify in detail what are the standards used in the preparation of the budget?
- 14. When designing the budget, do you compute the production capacity of each production unit and of the corporation as a whole?

ES NO

NO

- 15. If the answer to Question 12 is YES,
 - a. How do you compute the production capacity.
 - b. Is there are relationship between the assessment of production capacity and the budgetary process?
 YES NO

If YES, what are the procedures?

- 16. Are there any limiting factors which affect the budget and play an important part in its construction?
 YES NO
- 17. Do you divide the annual budget into short-term operational budgets?
- 18. If the answer to Question 17 is YES, please circle whatever applicable.
 - a. Monthly budgets
 - b. Quarterly budgets
 - c. Others, please specify.
- 19. Do you translate the annual budget into work programmes?
 YES
- 20. When do you prepare the annual budget?

- 21. When did the budgetary control system start in your corporation? What is the history of the system?
- 22. Could you please specify whether the budget for the year 1980 has been prepared, and in particular
 - a. When it was developed?
 - b. Who proposed the budget levels?
 - c. Who was consulted about the budget levels?
 - d. Who decided on the budget levels?
 - e. Who authorised the budget?
- 23. Do you have any relevant information that could still be relevant to the budgetary control system in the corporation?

Specifically, I will ask the manager to provide the following:

- a. The authorised budget figures for the present year and the last two years.
- b. The actual performance figures of the last two years.
- c. The names of members of the budget committee in the present and last two years.
- d. Any recommendations from the Permanent Production Council concerning the preparation of the budget for the present and last two years.
- e. Any written communication with Head Office dealing with budget matters during the present and last two years.
- f. A list of names of budget staff in departments in the corporation and their organisational relationships.
- g. A list of reports dealing with budget issues, whether the budget department is the receiver or the sender. This list must show the duration of the report, from whom to whom, and the purposes of these reports.

Questionnaire 11.

The Management Control Process and Policies Governing Divisional Performance

1. Is the corporation divided into sub-units whereby the manager of each sub-unit is assigned specific authority and responsibility for the operational activities of that unit?

YES NO

2. If the answer to Question 1 is NO, I understand then that the corporation as a whole is considered as one unit. Do you find any difficulties in controlling the business?

If YES,

- a. Please specify what difficulties you face.
- b. Specify the control system in operation.
- 3. If the answer to Question 1 is YES, please specify the units into which the corporation is divided.
- 4. Do each manager of sub-units present a budget for his unit?

YES NO

- 5. Are the budgets of all sub-units presented to top management for critical review, evaluation, and suggested revisions where appropriate?

 YES NO-
- 6. Are all sub-units' budgets consolidated into the comprehensive budget for the whole corporation?
 YES NO

If YES, please attach a copy of each sub-unit's budget and the comprehensive budget for the corporation as a whole for the present and last two years.

- 7. Are the objectives and the profit target for the corporation as a whole divided between sub-units?

 If YES, specify on what basis.
- 8. In the case of long-term planning, does each unit prepare the following.

 Circle whatever applicable.
 - A statement of appraisal including its own strengths and weaknesses.
 - b. Products market plan.
 - c. Projections of profits.
 - d. Projections of balance sheets.
 - e. Projections of funds flow.
 - f. What else, specify please.
- 9. Are the sub-units projections' consolidated into projections for the corporation as a whole?

10.		e corporation's sub-units treated as the foll whatever applicable.	owing:		
	a.	Budget centres.			
	Ъ.	Profit centres.			
	С.	Responsibility centres.			
	d.	Cost centres.			
	e.	Investment centres.			
	f.	What else, please specify.			
11.		e case of determining capital requirements, deement:	oes each		t
	a.	Devise and evaluate its own capital budget?	YES	ИО	
	ъ.	Operate within limits of predetermined sum may available to each sub-unit from central sour	ade :ces?		
			YES	NO	*
	с.	Free to explore outside sources of capital?	YES	NO	
12.	sub- divi cost	d you please make available to me a statement units in the corporation, showing whether and ded into budget centres, responsibility centre centres, on what basis?	es, profi	t centro	es,
13.	perf Spec	d you please specify how you measure sub-unit ormance? ify according to the following: Performance of budget centres' managers.		· · · · · · · · · · · · · · · · · · ·	
	a.	Performance of responsibility centres' mana	gers.	opły	
	Ъ.	Denformance of profit centres' managers.			
	с.	Performance of cost centres' managers.	, s. v. Pers	. 038 - 250	
	d.	Performance of investment centres' managers	;		1 48
	e.	there a formal procedure for the appraisal of	sub-unit	s' mana	gers'
14	. Is	there a formal procedure for the approach	YES	o NO	
	If '	YES, make it available to me.			
		s the performance appraisal normally result i	n:		
15	. Doe		YES	NO	
	Spe	Reward cify what kind of reward.	YES	NO	
		Punishment	include	а	
16	. Dog	Punishment es the performance appraisal for each sub-unit es the performance predetermined budgets and the	actual	performa	ance?
T.(COI	es the performance appraisal for each sub-unit oparison between predetermined budgets and the	YES	NO	

In the trading activities of the corporation, what is the 17. proportion (compared with external sales) of products and/or services transferred internally between sub-units during a typical year? Totalis of the walk Wil Please tick one of the following boxes.

50% or more

25 - 50%

10 - 25%

- below-10% externally.

Virtually none

- 18. When an external and internal market exists for products and/or services of a main operating unit, which of the following describes your policy? Circle whatever applicable.
 - Total output must be sold within the corporation.
 - All internal requirements must be supplied, but surplus output can be sold outside the corporation.
 - The unit is free to find the best market regardless of the С. internal/external distinction between customers.
- When an internal and external source of supply exists for the 19. product and/or service requirements of a main operating unit, which of the following best describes your policy. Please circle whatever applicable.
 - Total supply of the unit must be obtained internally. а.
 - Internal supply is always preferred, but surplus requirements, over and above internal capacity, can be obtained externally. Ъ.
 - The unit is free to choose its cheapest source of supply regardless of the internal/external distinction between suppliers. С.
- For central service departments, broadly distinguished between two 20. management expertise - e.g. computer systems and facilities, types, financial expertise etc.,

technical expertise - e.g. product and production knowhow etc.,

for which an external and internal market exists, which of the following Technical best describes your policy? Management Expertise Expertise

In respect to central service departments а.

- All the outputs of the department must be i. used internally.
- All internal requests for services must be supplied, but surplus capacity can be ii. sold outside the corporation.
- The service department is free to find its best market regardless of the internal/ iii. external distinction between customers.

- b. In respect to users of central services i.e. the main operating units
 - i. The total requirements of the unit must be obtained internally.
 - ii. Internal supply is always preferred but surplus requirements over and above internal capacity can be obtained externally.
 - iii. The unit is free to choose its cheapest source of supply regardless of the internal/external distinction between suppliers of services.

Questionnaire 12 Performance and Variance Analysis

- 1. Do you compare the actual performance with that budgeted? $$\operatorname{\mathtt{YES}}$$ NO
- 2. Is the variance analysis the concern of the budget staff only?
- 3. If the answer to Question 1 is NO, could you please specify who else in the corporation is concerned about variance analysis.
- 4. If the answer to Question 1 is YES, do you not agree that for control to be effective the line managers and supervisors must involve themselves in tracing the reasons for variances and then take the necessary action?
- 5. If you agree what is stated in Question 3, what prevents you from involving line managers and supervisors in the variance analysis process in practice?
- 6. Is there any personal contact between the budget staff and the line managers?
- 7. When should the variances be regarded as serious, and at what stage should action be taken?
- 8. Are controllable and uncontrollable variances recognised?
- 9. Do you adopt the integrated approach, which means that you put emphasis on the interrelationships which exist between the different variances?
- 10. If the answer to Question 8 is NO, do you carry out the variance analysis process by comparing actual profit with standard profit only?
 YES NO
- 11. If the answer to Question 8 is YES, do you not agree that the comparison between actual profit and standard profit may be much too late in time as corrective action can only apply to future periods?

If the answer to Question 8 is YES, ignore Questions 9 and 10 and please answer the following questions.

How often do you carry out the variance analysis? 12. Circle whatever applicable. Daily a. Weekly b. - Single dat (single all all significations) Monthly c. d. Quarterly Yearly. e. Which of the following factors do you use when considering the profit variances? Circle whatever applicable. Return on total capital employed. Return on the sales achieved. h. Capital turnover. c. What else, please specify. d. When considering the return on total capital employed as a key factor, which of the following do you consider? Circle whatever applicable. Compare with previous years' results. Look at the industry as a whole. Ascertain why profit has declined or increased. c. What else, specify please. d. When considering the return on sales achieved, what of the following 15. do you consider? Circle whatever applicable. Are profit margins adequate? a. Is the most profitable sales volume and sales mixture being Ъ. produced? Are prices competitive? c. Are we obtaining our share of the market? i. Has there been a decline in the total market? ii. Are selling and distribution costs realistic and reasonable? d. What else, specify please. e. When considering capital turnover, which of the following key questions do you consider? Circle whatever applicable. Which divisions are not producing a large enough volume of

business?

i.

ii.

Production

iii. What else, specify please.

Sales

- b. Are some assets excessive for the turnover being achieved?
 - i. Are machines utilized fully?
 - ii. Are stocks excessive?
 - iii. Are any parts of the business not operating at normal capacity level?
- 17. Which of the following do you consider when carrying out the sales variance analysis?

 Circle whatever applicable.
 - Sales price variance.
 - b. Sales volume variance.
 - c. What else, specify please.
- 17.1. When carrying out the sales price variance analysis, do you use an equation as follows?

Sales price variance = (Actual Quantity Sold x Actual Selling Price)

- (Actual Quantity Sold x Standard Selling Price)

If you use an equation which differs from that mentioned above, please specify.

17.2. When carrying out the sales volume variance analysis, do you use an equation as follows?

Sales volume variance = (Actual Quantity Sold x Standard Selling Price)

- (Budgeted Quantity x Standard Selling Price)

If you use an equation which differs from that mentioned above, please specify.

- 17.3. If you consider any other sales variance, please specify how you carry it out.
- 18. Which of the following do you consider when carrying out the direct material variance analysis? Please circle whatever applicable.
 - a. Direct materials cost variance.
 - b. Direct materials price variance.
 - c. Direct materials usage variance.
 - d. What else, specify please.
- 18.1. When carrying out the direct materials cost variance analysis, do you use an equation as follows:

Direct materials cost variance =

The standard cost of direct materials used - the actual cost of direct materials used.

If you use an equation which differs from that mentioned above, please specify.

18.2. When carrying out the direct materials price variance, do you use an equation as follows?

Direct materials price variance=(Actual Quantity Purchased ${\sf x}$ Actual Price)

-(Actual Quantity Purchased x Standard Price)

If you use an equation which differs from that mentioned above, please specify.

18.3. When carrying out the material usage variance analysis, do you use an equation as follows?

Material usage variance = (Standard Price x Actual Quantity)

- (Standard Price x Standard Quantity)

If you use an equation which differs from that mentioned above, please specify.

- 18.4. If you consider any other direct materials variances, please specify. how you carry them out.
- 19. Which of the following do you consider when carrying out the direct wages variance analysis?

 Please circle whatever applicable.
 - a. Direct wages variance.
 - b. Direct wages rate variance.
 - c. Direct labour efficiency variance.
 - d. What else? Specify please.
- 19.1. When carrying out the direct wages variance analysis, do you use an equation as follows?

Direct wages variance = (The standard direct wages for the activity achieved)

- (The actual direct wages paid)

If you use an equation which differs from that mentioned above, please specify.

19.2. When carrying out the direct wages rate variance analysis, do you use an equation as follows?

Direct wages rate variance = (Actual hours worked x Standard wage rate)

- (Actual hours worked x actual wage rate)

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If you use an equation which differs from that mentioned above, please specify.

- 19.4. If you consider any other direct wages variances, please specify how you carry it out.
- 20. Which of the following do you consider when carrying out the overhead variance analysis?
 Please circle whatever applicable.
 - a. Overhead variance analysis.
 - b. Overhead volume efficiency variance.
 - Overhead capacity usage variance.
 - d. Overhead volume variance.
 - e. Overhead expenditure variance.
 - f. Administration overhead variance.
 - g. Selling and distribution overhead variance.
 - h. What else, please specify.
 - 20.1. When carrying out the overhead variance analysis, do you use an equation as follows?

Overhead variance = (The standard cost of overheads absorbed in the output achieved) - (The actual overhead cost)

If you use an equation which differs from the one mentioned above, please specify.

20.2. When carrying out the overhead volume efficiency variance analysis, do you use an equation as follows?

Overhead volume efficiency variance = (Overhead rate per standard hour x Standard hours value of production) -

(Overhead rates per standard hour x Actual hours worked on production)

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If you use an equation which differs from that mentioned above, please specify.

20.3. When carrying out the overhead capacity usage variance analysis, do you use an equation as follows?

Overhead capacity usage variance = (Overhead rate per standard hour x Actual hours worked on production) -

(Overhead rate per standard hour x Budgeted standard hours)

If you use an equation which differs from that mentioned above, please specify.

20.4. When carrying out the overhead volume variance, do you use an equation as follows?

Overhead volume variance = (Overhead rate per standard hour x standard hours value of production) -

(Overhead rate per standard hour x Budgeted standard hours)

If you use an equation which differs from that mentioned above, please specify.

20.5. When carrying out the overhead expenditure variance, do you use an equation as follows?

The overhead expenditure variance = (Budgeted overheads - Actual overheads)

If you use an equation which differs from that mentioned above, please specify.

20.6. When carrying out the administration overhead variance analysis, do you use an equation as follows?

The administration overhead variance = Absorbed overheads - Actual overheads

If you use an equation which differs from that mentioned above, please specify.

20.7. When carrying out the selling and distribution overhead variances, do you use an equation as follows?

Selling and distribution overheads variance = (Selling and distribution absorbed overheads) -

(Selling and distribution actual overheads)

If you use an equation which differs from that mentioned above, please specify.

- 20.8. If you consider any other overhead variances, please specify how you carry them out.
- 21. Do you design and construct the following?
- 21.1. A summary of standard factory cost of sales.

 YES NO
- 21.2. Do you prepare a corporate operating statement which shows the budgeted activities, variances "favourable or unfavourable", and the actual activities of the corporation?

 YES NO
- 21.3. If the answer to Question 21.2. is YES,
 - a. Please attach a copy of this statement for the last two years.
 - b. How often do you prepare this statement?
 - Weekly
 - Monthly
 - Quarterly
 - Yearly
 - What else, please specify

- 22. Do you often carry out an investigation to know the reasons why variances occurred and whose responsibility they are? Specify please.
- 23. Do you often take action to benefit from favourable variances and to correct the unfavourable ones?

 Specify please.

Appendix Three:

Standard Forms of Statements and Accounts as presented by the Standardised Accounting System (SAS)

The Standard Forms Are:

3.1.	Balance Sheet
3.2.	Statement of Sources and Uses of Fund
3.3.	Current Operations Account
3.4.	Production and Trading Account
3.5.	Profit and Loss Account
3.6.	Cash Statement
	3.6.1. Cash Statement "Payments"
	3.6.2. Cash Statement "Receipts"
	3.6.3. Cash Statement "Summary"

December 2014 December 3			1 1 1	1 1 1			1 !		1 1	· 1 1		1 1		. , ~	1								1 1 1	in the state of th	
(Paid-up) Capital (Paid-up) Capital ment Participation (to be sement Surplus cory Veserves ment Scourities Reserve Fund ves for Financing Investment Projects, 11s, and Exanations Investment Participating 1. Reserves re for Redeeming Covernment Participating re for Replacement Value of Assets Reserves signification from for Depreciation re for Replacement Value of Assets re for Redeeming Covernment Participating re for Replacement Value of Assets re for Replacement Trade Frowfisher for Doubtful Debts re identifies r		Assels	lings, Constructions, t and Machinery	ent	Livestock Deferred Revenue Expenditure	Projects in Progress	Fixed Assets under Erection Investment Expenditure	Inventories	Raw Materials Fugls	Spare Parts and Loose Tools Packing Material Scraps	shed Productic ed Production	Merchandise held by Others Goods for Resale	Long Term Debts	Domestic		Securities a in Domestic in Foreign S		1 3	Bills Receivable - Trade Others than Trade	Miscellaneous Accounts Receivable	Miscellaneous Debtors Other Debit Balances Accrued Current and Ear-Marked Receipts	Cash in Hand and at Banks	Bank Current Account Deposits on Demand Cash in Hand		
Tes and Surplus Tes for Financing Investment Projects, The serves T	Code No.		111 112 113	114 115 116	117 118 118		121 122		1311	1313 1314 1315	132	134		141	7 1	151 152 153		161	163		171 172 172 173		2.182 183 181		
Testd-up) Capital wment Participation (to be semed) les and Surplus ory Reserves wment Securities Reserve Fund tes for Financing Investment Projects, les for Falancing Investment Participating re for Redeeming Government Value of Assets re for Redeeming Government Participating re for Redeeming Government Participation re for Redeeming Government Participation re for Redeeming Government Participat	· · · · · · · · · · · · · · · · · · ·								1				`								1		•		
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		Lear	(to be	serves and Surplus	atutory Reserves vernment Securities Reserve Fund	eserves for Financing Investment Projects, snewals, and Expansions	oneral Reserves sserve for Redeeming Government Participating sserve for Replacement Value of Assets	Lher Keserves urplus	rovisions	rovisions for Depreciation rovisions for Taxes	Provisions for Douhtful Debts Ther Provisions	ong Term Liabilities	omestic oreign	redit Banks	ank Overdraft and Facilities ecured Short Term Loans Occumentary Credits	reditors	ccounts Payable - Trade ills Payable - Trade that than Trada	riei Liane hpaid Dividends	1scellaneous Credit Accounts	ccrued Current and Ear-Marked Expenses					

Sources of Funds

rm 3.	,	itatem:	ent of S	iources 1	nd Uses of	Funds			
	of Funds	,	.ac 91 3			1	Jse	es of Fu	ınds
de					Code			SECURITY OF THE PARTY OF THE PA	
No.	Self-Financing				No.	Gross Capital Formation			
21 22 223	Statutory Reserve Government Securities Reserve Fund Reserve for Financing Investment Projects, Renewals, and Expansions	-			111 112 113	Land Levelling (All Expenses Except Cost of Purchase) Buildings, Constructions, and Roads Machinery and Equipment (Excluding		Ξ.	
24 25	General Reserve Reserve for Redeeming Government Participation	-			114	Custom Dutics) Transportation Systems (Excluding Custom		- 1	
226 227 228	Reserve for Replacement value of Assets Other Reserves Surplus	-	_		115	Duties) Loose Tools & Equipment (Excluding Custom Duties) Furniture, Office Equipment and Fixtures		- - -	
231	Provision for Depreciation	-			117	Livestock (Excluding Custom Dutles) Deferred Revenue - Expenditure		-	
232 233 234	Provision for Taxes Provision for Doubtful Debts Other Provisions	-			1181	Preliminary Expenses	-		
	Liquidity		-	-	1182 1183 1184	Pre-Production Costs Research and Experimental Expenses Patterns and Models		_	
11-15	Cost of Assets Sold		-			Inventories			-
131	Decrease in Inventories Commodity Inputs Unfinished Production & Work in Progress	-			131 132 133	Commodity Inputs (Excluding Custom Dutles) Unfinished Production and Work in Progress Finished Production			
133 134 135 136	Finished Production Merchandise Held by Others Goods for Resale Documentary Credits for Purchasing Goods				134 135 136	Merchandise Hold by Others Goods for Resale (Excluding Custom Duties) Documentary Credits for Purchasing Goods		- - -	
			-			Customs and Dulies on Investment Components			-
14 15	Decrease in long-term lending Decrease in Securities and Other Investment Decrease in Debiors	-	-			Custom and Duties on Gross Fixed Capital Formation Custom and Duties on Inventories		-	_
161 162 163	Accounts Receivable - Trade Bills Receivable - Trade Other than Trade	-			12	Projects in Progress (All Costs Except the Cost of Purchasing Land)			-
171	Miscellaneous Debtors Other Debit Balances	-			2723	Capital Transfers	-		
173 18	Accrued Current and Ear-Marked Receipts Cash in Mand and at Mank	-	-		2722 11111 11121 11123	Second Hand Assets Lands (Cost of Purchasing)	-		
241 242	Rorrowed Capital Long Term Loans Domestic Foreign	-				(Other Assets must be shown according to the Classification of Capital Formation)	_	-	
212	Government Participation (to be redeemed) Creditors and Banks	-			1185	Pro-Production Interest Long Term Lending		-	
25	Credit Banks		[-	•	151	Government Securities and Bonds	-		# 1 d
261 262 263 264	Accounts Pavable - Trade Bills Pavable - Trade Others than Trade Dividend Creditors		-		152 153	Domestic Securities Foreign Securities Debtors	-	-	
272 273 274	Miscellaneous Creditors Other Credit Malances Accrued Current Ear-Marked Expenses		-	-	161 162	Accounts Receivable - Trade Bills Receivable - Trade	- ^s -	*	. ė,.
					163 171 172	Other Than Träde Miscellaneous Debtors Other Debit Balances	-		
			-		173	Accruéd Current and Ear-Marked Receipts	-	-	
					241 242	Redemption of Long-Term Loans Instalments of Domestic Loans Instalments of Foreign Loans	-		
					18	Cash in Hand and at Banks Decrease in Creditors	-	-	
					25	Credit Banks	-		
					26 272 275 274	Greditors Miscellaneous Greditors Other Gredit Accounts Accrued Gurrent and Ear-Marked Expenses			
					22,27	Decrease in Provisions and Reserves	<u> -</u>	-	
						Current Deficit			-
									-
		l	l	L		- 542 -	1	l	

Current Operations
For the Year Endec ...

Form 3.3.

İ 111 1111 111111111 11 111 Commodity Inputs
Non-Commodity Inputs (Excluding Custom Duties Purchase for Re-Sale) Rent Adjustment (difference between actual and imputed rent) Finished Production Revaluation Adjustment Turniture, Office Equipment and Fixtures Goods for Re-Sale Revaluation Adjustment Interest Adjustment (difference between Buildings, Constructions, and Roads Plant and Machinery Surplus of Current Transactions Deferred Revenue Expenditure Actual Rent actual and imputed rent) Current Transfer Expenses Commodity Taxes and Duties Loose Tools and Equipment **Transportation Systems** Custom Duties Production Excise Social Insurance General Expenses Treasury Share Other Taxes Wages in Kind Wages in Cash Depreciation Livestock Interest Domestic Foreign Code No 3511 3512 3513 3513 3522 3523 3524 3525 3525 3527 3528 3528 311 312 313 355 356 357 358 359 32 34 ١ 1 | | ţ | | 11111 1 I ١ 11 1 Re-Sale at Cost Price Goods for Re-Sale Revaluation Adjustment (difference between sales prices and cost price) Cost of Producing Capital Assets for Own Use Receipts of Work Done to Others Production at Cost Price Finished Production Revaluation Adjustment Changes in Inventories of Unfinished Changes in Inventories of Goods for Net sales of Finished Production Deficit of Current Transactions Receipts from Current Activity Subsidies (for Production) Subsidies (for Exportation) Production at Cost Price Production at Sales Prices Changes in Inventories of Sales of Services Goods for Re-Sale Sales (Net) Subsidies Code No 4181 4182 4183 421 422 415 416 417 411 413 414

Form 3.3 Cont/d..

Current Operations
For the Year Ended

		Leave (1)	
Deficit of Current Transactions Current Ear-Marked Transactions	Donations Subsidies Compensations Capital Losses Previous Year's Expenses Dead Debts Provisions (Other than Provisions for Taxes on Real Estate Income Taxes	Distributive Surplus	Retained Surplus Statutory Reserve Government Securities Reserve Fund Reserve for Financing Investment Projects, Revewals, and Expansions General Reserve Reserve for Redeeming Covernment Participation Reserve for the Replacement Value of Assets Other Reserves Surplus Carried Forward Surplus Distributed to State Employees Employees Employees
Code No	361 362 364 365 365 368 369		221 222 223 223 224 224 226 227 226 2641 2642 2642 2643
Surplus of Current Transactions Receipts from Securities	Transfer Receipts Credit Interest Credit Rent Capital Gains Receipts of Previous Years Compensations and Fines Miscellaneous Receipts Rent Adjustment (edifference between actual and imputed rent) Interest Adjustment (difference between	actual and imputed interest Current Deficit	Distributive .
Code No	441 442 445 445 446 446 446 446		

Production & Trading Account
At the end of the Financial Year

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						ar e an									14	1-1		
	1 1 1	1 1.1 1						The second s	- E.ss									100 m
	Wages Commodity Inputs Non-Commodity Inputs Current Transfer Expenses	Cost of Production Services Wages Commodity Inputs Non-Commodity Inputs Current Transfer Expenses			Production Cost (Balance Brought Forward) Purchase for Re-Sale	Changes in Inventories Revaluation Adjustment (Difference Sales Prices and Cost Price)	Finished Froduction Goods for Re-Sale	Total Surplus of Production				-	c	Cost of Marketing Services	Wages Commodity Inputs	Non-Commodity Inputs Current Transfer Expenses	Total Surplus of Production & Trading (Carried Forward to Profit & Loss Account)	
Code No	531 532 533 535	631 632 633			534	0	359								731 732	733 735		
													I					1
								1111		1							out on the con-	4
						1	1	1			1							***************************************
	Inventories of Unfinished Production at Cost Price Production Costs (Balance carried forward)				Current Activity Receipt Production at Sales Prices	Sales of Finished Production Changes in Inventories of Finished Production	at Cost Price Inventories (Finished Production) Revaluation	Adjustment (Uliference between Sales Frices and Cost Prices) Cost of Producing Capital Assets for Own Use Receipts of Work Done to Others Sales of Services	Goods for Re-Sale	Sales Changes in Inventories of Goods for Re-Sale at Cost Prices Inventories of Goods for Re-Sale Revaluation	Adjustment	Total Deficit of Production	Total Surplus of Production	Subsidies	Subsidies for Production Subsidies for Exportation	Total Deficit of Production & Trading (Carried Forward to Profit & Loss Account)		
Code No	414 1					411	413	415 416 417		4181 4182 4183					421 422			

Profit & Loss Account At the End of the Financial Year

(Brought Forward from Production & Trading Account Dead Debts Provisions (Other than Depreciation Provisions) Reserve for Redeeming Government Participation Reserve for the Replacement Value of Assets Administrative and Financing Services Costs Government Securities Reserve Fund Reserve for Financing Investment Projects, Total Deficit of Production & Trading Expenses Concerning Previous Years Surplus (Balance Carried Forward) Deficit (Balance Brought Forward) Current Ear-marked Transfers Current Transfer Expenses Compensations and Fines Capital Losses Renewals, and Expansions Surplus Carried Forward Non-Commodity Inputs Surplus Distributed to Income Taxex Distributive Surplus Commodity Inputs Statutory Reserve Retained Surplus Taxes on Estate General Reserve Other Reserves Employees Shareholders Donations Subsidies Others State Code No 831 832 833 835 361 362 363 364 365 366 367 2641 2642 2643 2644 369 221 222 223 224 225 225 226 227 228 Total Surplus of Production and Trading (Brought Forward from Production & Trading Account Capital Gains Receipts Concerning Previous Years Compensations and Fines Surplus (Balance Brought Forward) Deficit (Balance Carried Forward) Sales of Scrap Discount on Purchases Receipts from Dead Debts Profit of Materials Sales Receipts from Securities Imputed Rent Adjustment Miscellaneous Receipts Distributive Surplus Transfer Receipts Current Deficit Credit Interest Commissions Credit Rent Code No 4461 4462 4463 4464 4465 447 441 442 443 444 445 43

Cash Statement Payments

Form 3.6.1.

ļ		·						
		Agreements						
	Redemptions	Un- restricted						
Payments	Other Re	Domestic						
Previous Years	rm Loans	Agreements						
Previ	of Long-Term Loans	Un- restricted						
	Redemption	Domestic						
Current Year ity		Agreements						
Payment of Curi Activity		Un- restricted						
Pa		Domestic						:
	Description of Payments		Gross Fixed Capital Formation and Projects in Progress (Except Inventories and Inventories and Taxes)	Purchases of New Fixed Assets	Custom Duties on Fixed Assets Purchased from the Rest of the World	Capital Transfer: Purchases of Existing Assets Pre-Production Interest Purchases of Government Bonds Purchases of Securities Purchases of Other Investments	Other Payments	Long-Trayments Long-Term Debts Long-Term Debts Loans to Others Loans to Employees Deposits. Customs Department Unsettled Taxes Taxes Retained at Source (Transfer Value, Defence, Municipal & Stamps) Redemption of Insurance from Others Current Account with the Trasury Miscellaneous Credit Balances Niscellaneous Credit Balances Niscellaneous Debit Balances Social Insurance Taxes Retained at Source (Earnings, Defence, Stamps etc.) Deductions from Employees Commodity Inputs, Non-Commodity Inputs, Goods for Re-Sale Current Transfer Expenses Custom Duties Production Excise Treasury Share Rent Interest
	Code No			2721, 2511	2421 26331	2722/2412 2723 2724 2725 2725		14 1613 1632 1633 263212 2631 2634 2634 2733 172 2741 2635 2635 26331 418/33/32 26331 26331 26331 26331 26331 2742 2742

Form 3.6.2.

Cash Statement

Receipts

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			Agreements		-										- Inter The Service Wett Residence
		Recoveries	Unrestricted									Jan J			10000000000000000000000000000000000000
	s Years	Other Rec	Domestic	****									7		
	ring Preiou	oans	Agreements												
	Receipts Covering Preious Years	Recovery of Long-Term Loans	Unrestricted						· · · · · · · · · · · · · · · · · · ·						
		Recovery (Domestic						***************************************					***************************************	-
			Agreements			* Tall						*********			4
	Receipt of Current Year Acrivity		Unrestricted A												
	Receipt of		Domestic						• • •						•
		ı	Designation of Receipts	Receipts of Current Activity Sales of Finished Production, Goods for Re-Sale. Receipts of Work Done to	Others and Sales of Services Subsidies Receipts of Securities	Transfer Receipts	Credit Interest Credit Rent	Compensation Miscellaneous Receipts	Previous Years Receipts Sales of Fixed Assets	Amortisation of Government Bonds Sales of Securities	Sales of Other Investments Government Participation (to be redeemed)	Other Receipts	Recovered by Long-Term Loans Recovered Insurances Insurance from Others	Current Account with the Treasury Long-Term Borrowing Other Debt Balances	
			Code No	161/162	173 173		173 173	173	173 1711	1712 1713	1714 212		14 1613 2631 2632	26342 26342 24 172	

Form 3.6.3.

		Total								
			Agreements' Countries							
	Foreign	Other Countries		LE M	1'	1		1	4-	
Cash Statement Summary		Private Sector			the Period					
		ector	Enterprise		Beginning of					
	Domestic	Public Sector	Administrative		Cash Balance at the Beginning of the Period	Add Surplus	or	Deduct Deficit	Balance At	
		Designation			C	Ac		Deduc	й	

Appendix Four

Hadisolb's Expense Code

	Code	
	Code No.	Expense
	01	Mixed Gas
	28	Transportation
	29	Social Rate
	30	Social Rate - Experts
	31	Mixed Gas
	32	Blast Furnace Gas
	33	Protective Gas
	34	Hot Mazout
	40	Steam
	41	Chemical Water
1	42	Electric Current
	43	Electricity
	44	Compressed Air
	45	Blowing Air
	46	Machine Room Expense
	47	Water
	48	Potable Water
	49	-
	50	Hydraulic Oil Dolomite
	52	
	55	Services of Workshops
	56	Maintenance "Mechanical & Electrical"
	57	Civil Maintenance
	59	Grinding Workshop
	62	Steline
	63	Own Products for Repair
	64	Oxygen
	65	Other Maintenance
	66	
-	67	Transportation
	68	- 1 musetment
	76	Chemical Treatment
	86	- Land Expanse
	92	Overhead Expense Operation expense
-	93	Operation expone-

Hadisolb's Expense Code (Continued)

Code No.	Expense
2	
311100	Base Wages .
311101	Expert Wages
311500	Bonus
311500	Overtime
311531	Production Incentives
311600	Other Allowances
311641	Hand Work Wages
311665	Cost-of-living Allowance
312100	Social Rate
312500	Transportation of Experts
313100	Insurance
322110	Anthracite
322210	Mazout
322220	Solar
322230	Benzene
322240	Oil Material
322300	Oil & Lubricants
322400	Electricity
322550	Coke Oven Gas
322551	Natural Gas
322560	Steam from Coke Plant
322590	Gases
322600	Industrial Water
323100	Spare Parts
323210	Acids
323220	Graphite
323230	Stores Material Issued for Job Orders
323240	Conveyor Belts
323260	Clothing for Workers
323290	Stores Material
323300	Refractories
323400	Depreciation of Rolls-Molds-Ladles
323800	Explosives
324000	Packaging
326000	Stationery
331200	Maintenance of Buildings
331500	Maintenance of Machinery
331700	Maintenance of Furniture
331800	Wingellaneous Maintenance
335110	Personnel Transportation - Rented Cars

Hadisolb's Expense Code (Continued)

Code No.	Expense
335120 335199 335210 335200 335300	Personnel Transportation - By Railways - Transportation Allowance Travelling Allowance Telephone Allowance
335400 335500 336000 338200 352000	Telegraph Allowance Postage Allowance Vehicle Rental Insurance Depreciation - Machines - Buildings - Furniture

Appendix Five

Hadisolb Cost Centre Code

Code No.	Cost Centres	
	Aswan Mines	
	Production Cost Centres	
5001	Sand Removal	
5002	Drilling	
5006 5010	Transport of Ore Transport of Ore to Crusher	
5011	Crusher	
5072	Heavy Equipment	
5091	Geology Expenses	
5093	Survey	
5095	Preliminary Work	
	Service Cost Centres:	
6063	Electricity Station - Crusher	
6064	Electricity Station - Mines	
6067	Water Supply	
6070	Maintenance Workshop - Mines Maintenance Workshop - Crusher	
6071	Vehicles - Bulldozers - Trailers- Busses	
6072 6073	Laboratory	
6075	Housing	
6077	Clinic	
8079	Administration	
	Riffai Quarry (Limestone)	
5020	Mining	
5023	Crushing of Limestone	
6020	Maintenance	
6022	Cars Clinic	
6024 8020	Administration	
	Adabia Quarry (Dolomite)	
5050	Dolomite Quarry	
	Baharia Mines	
5102	Mechanical Drilling	
5103	cond Removal	
5105	Explosion & Mining of Ore	

Code No.	Cost Centres
5106 5107 5108 5110 6100 6102 6105 6106 6107 6127 6129 6132 6133 6134 6135 6136	Bulldozers Ore Burden to Comions Ore Transport to Comions Ore Crushing Water Station Clean Water Electric Cables Lighting Main Workshop Light Transportation Personnel Transportation Chemical Laboratory Social Services Clinic Services Homes and Flats Stores
8100 9100	Administration Research Benni Khalid Quarries (Limestone)
5112 5114 6112 6114 6116 6118 6119 8120	Explosives and Dust Removal Stone Crushing & Screening Workshop Maintenance Energy and Power Transportation Clinic Services Socail Services & Homes Administration - Stores Purchases
5201 5202 5203 5204 5205 5206 5207 5208 5209	Reception Pins Coke Screening Coke & Stone Preparation Storage Bins Material Bunkers Sinter Premixed Plant Sinter Machine Sinter Burden
5210 5212 5213	Sinter Plant 2 Tippler Ore Crushing Ore Blending

Hadisolb Cost Centre Code (Continued)

a 1	the state of the s
Code	
No.	Cost Centres
5214	Burden Bunkers
5218	Reception Pins
5219	Coke & Ore Crushing
5220	Premixing Plant
5221	Sinter Machine
5222	Sinter Crushing & Cooling
6220	
1 -	Mechanical Workshop
6224	
6226	Electrical Workshop
6227	Water for Sinter Plant 2
6228	Chemical Laboratories
6229	Overhead Expenses
	Blast Furnaces
5230	Stockyard for Nos. 1 & 2 Blast Furnaces
5231	Blast Furnace No. 1
5237	Blast Furnace No. 2
5235	Stores - Nos. 1 & 2 Blast Furnaces
5239	Oil Firing - Nos. 1 & 2 Blast Furnaces
ş -	Coke Transportation - Conveyor
5240	Charging - No. 1 Blast Furnace
5241	No. 3 Blast Furnace
5243	Charging - No. 4 Blast Furnace
5245	
5246	No. 4 Blast Furnace
5247	Stores - No. 3 Blast Furnace
5248	Stores - No. 4 Blast Furnace
5250	Slag Granulation
5260	Pig Casting
	Service Cost Centre
6237	Taphole Clay Preparation Nos. 1 & 2 & 3 & 4 Blast
025/	
6238	Furnaces Transport Hot Metal Nos. 1 & 2 & 3 & 4 Blast Furnaces
0230	radio Papairs
(2/2	m to Boyor Nos. 1 & 2 Blast Furnaces
6242	Turbo Power Nos. 3 & 4 Blast Furnaces
6244	TULDO LONGE
(0/0	Gas Distribution Systems
6249	Gas 51002
	A second of the
6051	Slag Transport Nos. 1 & 2 & 3 & 4 Blast Furnaces
6251	Slag Ladle House
6252	Stag Budge

Hadisolb Cost Centre Code (Continued)

Code	
No.	Cost Centres
6257	Mechanical Maintenance Nos. 1 & 2 & 3 & 4 Blast
0251	Furnaces
6258	Electrical Maintenance Nos. 1 & 2 & 3 & 4 Blast Furnaces
6299	Other General Expense
	Steelworks
5301	Mixer - 500 tons
5311	Thomas Convertors
5314	Thomas Yard
6315	Thomas Blowing
6316	Hydraulic for Thomas & Dolomite
	Dolomite Plant
6317	Mechanical Maintenance
6318	Electrical Maintenance
5320	Scrapyard
5321	Electrical Furnaces
5330	Lime Kiln
5321	Reserve Dolomite Crushing
	Oxygen Convertor - Steel
5340	Mixer 1300
5342	Oxygen Convertors
5343	Addition Yard
5344	Scrapyard
5346	Scrap Crushing
5349	Hot Steel Transportation
5350	Dolomite Ore & Stone Yard
	New Dolomite Plant
5352	Dolomote Mill
5353	nolomite Furnace
5354	Dolomite & Magnesite Mixing
5355	Tan Bonded Dolomite
5356	Time Kiln
6371	Convertors - Boilers
6372	l Bullding
6373	Continuous Ladles - Maintenance
6374	Slag Yard

Cost Centres
Steel Service Cost Centres
Mechanical Maintenance
Electrical Maintenance
Dolomite Maintenance
Dolomite Boilers
Air Blowers
Gas Mixed & Pouring
Overhead - Steel
Dolomite - Burnt
Tar Mixed Dolomite
Tar Mixed Dolomite Bricks
Tar Mixed Dolomite Bottom
Thomas Grinding Mill
Electric Furnace & Dolomite Mechanical - Maintenance
Electric Furnace & Dolomite Electrical - Maintenance
Ladle Firebrick
Overhead Expenses - Steel Plant
Continuous Steel Plant
Direct Pouring
Slabs Continous Pouring 1, 2, 3
Slabs Transport to Storage
Slabs Cutting
Slabs Cleaning
Continous Pouring for Billets 1, 2, 3
Billets Storage
Slab Storage
Internal Circulated Water
Mechanical Maintenance Electrical Maintenance
Overhead Expenses
Overnead Expenses
Blooming Mill
Pit Reheating Furnaces
Blooming Mill
Blooming Shear
Clean by Fire
Means of Burden
Service Cost Centre
Mechanical Maintenance
Electrical Maintenance
Overhead Expenses

Hadisolb Cost Centre Code (Continued)

Code No.	Cost Centres	
	Heavy Sections	
5411	Pusher Furnace	
5412	Section Mill	
5413	Cooling Beds	
5414	Sleeper Shears	
5415	Straigntening Machine	
5416	Sleeper - Finishing	
5417	Fish Plated - Finishing	
5418	Straighening - Finishing of Rails	
6421	Mechanical Maintenance	
6422	Electrical Maintenance Rolling Mill Grinding Workshop	
6425	Guides Workshop	
6426	Overhead for Section Mill	
6429 7419	Dispatching	
5431	-	
)431		
	Light Section Mill	
5/21	Pusher Furnace and Blooms storage	
5431	Reheating Furnace	
5432 5433	Primary Rolling Mill	
5435	Wiring Rolling Mill	
5436	Finishing	
6439	Guides for Light Section	
6440	Grinding for Light Section	
6999	Overhead Expenses	
6445	Mechanical Maintenance	
6446	Electrical Maintenance	
7449	Dispatching	
	Plates Rolling Mill	
	Pusher Furnace	
5451	Trio Mill (Plate Mill)	
5453	creatohtening Machine	
5454 5458	Operating Rolling Mill	
5461	Plate Shears	
5464	Annealing Furnaces	
6462	Mechanical Maintenance	
6463	Electrical Maintenance	
6465	Overhead Expenses	
7469	Dispatching	

Hadisolb Cost Centre Code (Continued)

Code No.	Cost Centres
	Sheet Mill
5471	Reheating Furnace
5473	Sheet Mill
5474	Sheet Finishing
5481	Annealing Furnace
5484	Oiling
	Service Cost Cente
6495	Rolling Mill Roll Shop
6497	Mechanical Workshop
6498	Electrical Workshop
6499	Overhead Expenses of all Rolling Mills
	Strip Mill Hot Rolls
5501	Slab Storage Yard
5502	Slab Reheating Furnace
5505	Prerolled Mill
5506	Finishing Rolling Mill Machine Room No. 1
5510 5511	Machine Room No. 2
7711	
	Service Cost Centre
6553	Water Pump Room
6554	Oiling & Hydraulic Station
6555	Mechanical Workshop Electrical Workshop
6556 6557	Roll & Guide Shop
6558	Steam Unit
6559	Overhead Expenses
	Cold Roll (Pickling)
	Coils - Transportation
5601 5602	Continous Pickling Line
5649	Chemical Treatment
	Reversible
5605	Reversible Mill (right)
5606	1
5608	Coils Rerolling Medicine Distilation of Palm Oil
5610	Distilation of farm 32

Hadisolb Cost Centre Code (Continued)

Code	Cost Centres	
140 •	Cost Centres	se alle e e
6746	Chemical & Testing of Products	
6991	Carpenter Workshop	
6992	Precise Worshop	
6993	Weighing Machines Maintenance	
6759	Welfare Building	
7121	Dispatch Cost Centre for Hot Plates	
7122	Dispatch Cost Centre for Cold Sheets	
7123	Dispatch Cost Centre for Cold Strip	
7124	Dispatch Cost Centre for Galvanising Sheets	
7125	Dispatch Cost Centre for Tining Sheets	
	Workshops - Machine & Heat Treatment	
5901	Raw Material Preparation Yard	
5902	Heavy Machines	
5905	Moderate Machines	
5907	Light Machines	
5910	Assemblies, Machines & Tools	
5911	Collecting Machine	
5912	Chrome Painting Workshop	
5915	Tool Producing Workshop	
5919	Heat Treatment Unit	
6904	Mechanical Maintenance	
6906	Transportation Equipment Expenses	
6909	Overhead Expenses	
5930	Sand Preparation	
5931	Steel Knockout Department	
5933	Iron Knockout Department	
5935	Steel Department	
5936	Iron Department	
5937	Iron Furnace Bell Type Annealing Furnaces	
5611	Bell Type Annearing Large	
5612	Skin Pass Mill	
5615	Slitting Line 1	
5616	Slitting Line 2	
5618	Plates Shear 1	
5619	Plates Shear 2 Combined Shears	
5621	ting for Cold Products	
5625	Shearing Line for Hot Products Shearing Line for Hot Products	
5626	Hot Tinning Line	
5630	not Colvanising Line	
5635	olto Corrugating Plant	
5638	Tinplate Packing Machine	
5640		
5641	-totion and Ribing Total	
5643	Oiling and Lubricants Station	•
6572		

Code	
No.	Cost Centres
6573	Mechanical Maintenance
6576	Electrical Maintenance
6578	Grinding Repair Shop for Rolling Mill
6581	Rubber Relining Workshop
5652	Protective Gas Unit
5653	Machine Room
5655	Preparing Solution & Fluxes Unit
6588	Galvanising Workshop & Tinning
6579	Overhead Expenses
6590	Gas Pushing & Mixing Maintenance
6691	Transformer Station
6595	Compressed Air Station
5939	Steel Furnace
5940	Pattern Workshop
5943	Finishing
6919	Overhead Expenses for Foundry
6921	Carpenter Workshop
6925	Overhead Expenses for Carpenter Workshop
5941	Forge Shop
5951	Raw Material Preparation Yard
5961	Steel Structural Yard
6931	Mechanical & Electrical Workshop
6933	Overhead Expenses for Forge Shop
5983	Raw Material Preparation Yard
5985	Preassembly Yard
5987	Finishing Yard Assembly
6942	Own Compressed Air
6944	Mechanical & Electrical Maintenance
6945	Transportation & Cranes
6946	Stores Material
6949	Overhead Expenses
6950	Fitting & Assmbly Department
6951	Spare Parts Producing Unit
6952	Welding, Forging, Carpenter Welding, Forging, Weld Maintenance
6953	Continous Casting Mold Maintenance
6954	Stopper Bars Workshop
6955	Guides for Rolling Mill Workshop Central Maintenance - Lubricante
6956	Central Maintenance
6958	Reheating Furnace Maintenance
6960	Big Maintenance
6962	Own Maintenance
6969	Overhead Expenses
6970	Machines Workshop
6971	Forging, Welding - Sheets
6973	Central Big Maintenance
6975	Own Maintenance

	Code No.	Cost Centres	
	6979	Overhead Expenses	
	6982	Mechanical & Electrical Erection Workshop	
	6984	Erection of Steel Structural Workshop	
	6988	Big Maintenance	
	6989	Overhead Expenses	
	6681	Maintenance of Weighing Machines	
	6701	Old Central Workshop	l
	6710	Civil Workshop	
	6715	Own Maintenance	
	6718	Internal Producing Centre	
	6730	Overhead Expenses	
	6601	Oxygen Plant - Old	l
	6602	Oxygen Plant - New	
	6603	Oxygen Cylinders	
	6604	Pipelines of Oxygen	
	6605	Mechanical & Electrical Maintenance	
	6609	Overhead Expenses	
	6615	Acetylene Station	
	6616	Acetylene Cylinders	
	6621	Old Boiler	
1	6622	Turbo Blower Station T.B.S	
	6623	Steam Pipeline	
	6624	Mechanical Maintenance of T.B.S	
	6625	Electrical Maintenance of T.B.S	
	6629	Overhead Expenses Old Operation Water Station	
	6631		
	6632	Drinking Water Blast Furnace Water Units	
	6633	Continuous Steel Water Units	
	6634	Oxygen & Compressors Units	
	6635	Rolling Mill Water Units	
	6636 6637	Water Pipeline - New	
	6638	TT 1 - TO COTTO CO	
	6639	Di frical Mallifellatice	
	6641	Mechanical & Electrical Harmonian Compressed Air Station - B.F. Stee, Rolling	
	6642	New Compressed Air	
	6644	Fuel Oil Station No. 1	
	6645	Fuel Oil Station No. 2	
	6647	Abou-F1-Garadik Gas	
	6652	Two tracks	
	6655	The state of the Condition realizable	
l	6657	Central Mechanical Workshop	
	6658	Central Electrical Workshop	
	6659	Overhead Expenses Mechanical & Electrical Maintenance Mechanical & Electrical Workshops	
	6670	Mechanical & Electrical Workshops Mechanical & Electrical Workshops	
	6673	Mechanical & Electrical	٠
	6675	Mechanical & Bleeder Electric Cars - Burden Unit	
	66/5	Electric -	

Cost Centres
Lights - Maitenance
Overhead Expenses
Communication & Precise Department
Control Shop
Supervisory of Control Shop
Overhead Expenses
Transformer Station for Operation & Lighting
Wire & Wireless Communications
Power Depart-Central Electrical Maintenance
Electric Cables
Electric Transformers Maintenance
Overhead Expenses
Lighting Cables
Locomotive Maintenance Locomotives - Car
Central Diesel Workshop
Overhead Expenses
Trains (Locomotives)
Cars
Railways
Personnel Cars Workshop
Cranes Workshop
Chation Corte
Personnel Transportation - Overhead expenses
cmall Cars
First Aid & Fire Protection Cars
Jeeb Cars & Motorcycles
Lorries (Camions)
Tippler Lorries
Electric Cars
Cranes & Bulldozers
Trailers
Cranes Control Shop
Transportation Control Shop Cars Workshop - Maintenance
1 - 1 - kom - R10 MAIIILEIIAIICO
Mechanical works.
Cars Workshop - Overhead Emparison General Administration of Transportation
Production Director
Technical Office
Printing Machine
Production Control
Control Room of Production Control Room of Production Foundry Laboratories
plact furnace d , same
Non-central Laboratories Central Laboratories

Code		
No.	Cost Centres	
NO.	Cost Gentles	
6813	Inspection Laboratories	>
6814	Research	
6815	Quality Control	
l l	Natural & Metallurgical Laboratories	
6817	3	
6819	Radiation Laboratory	
6820	Training Department	
6821	Apprentice Department Social Services	
6823	Food for Workers	
6824		
6825	Workers City	
6826	Housing	
6827	Clinic Departments	
6831	Purchasing Department	
6822	Alexandria Office	
6833	Main Stores	
6836	Stores	
6841	Security Department	
6842	Protective Clothes Workshop Maintenance	
6843	Protective Clothes Workshop	
6844	Fire Protection Cars	
6851	Security & Cleaning	
6857	Experts City Chief Board of Directors "President"	
8901		
8903	Law Department Vice-President for Production	
8905	Vice-President for Fronderson	
8906	Acting Chairman - Service	
8907	Acting Chairman - Financial	
8911	Internal Relations Department	
8913	General Relations	
8914	Administrative Securities	
8921	Director Financial Affairs	
8925	Financial Director	
8929	Computers	
8930	Costing & Budget Director	
8942	Cairo Office	
8945	Helwan Administration	
8950	Mines & Quarries Administration	
9901	Project Administration	
9910	Vice-President for Projects	
5608	Po-rolling Strip Mili	
6599	Ororhead - Strip Mili	
6300	1 . 1 - CFAAI PLANGS	
6781	the iching Machines Maintenance	
6861	. 1 Tabarainilea	
6863	Chemical Laboratories Central Chemical Laboratories Overhead Expenses for Laboratories	
	I Transpeas IUL Maduration	

Hadisolb Cost Centre Code (Continued)

Code No.	Cost Centres	n men sam sam sam en	- 4 w	Transcope : If the control of the c	esta de la constante de la con
9990 6870 6875 8961 8963 8965 5522 5524 5526 5528 5530 5534 6523 6524 6528 6532 6532 6532 6534 6539 7522 5561 5563 5565 6560 6561 6563 6565 6567 6569	Project Director Technical Documents Printing & Photo Units Industrial Relations Directors Salaries Revisors Personnel Affairs Reheating Furnace Pre-rolling Mill Continuous Rolling Mill Section Finishing Unit Straightening Round Bars Finishing Rails & Other Sections Roll Turning Shop Oiling & Hydraulic Unit for Products Oiling & Hydraulic Unit for Services Control Maintenance Main Electric Motors & Control Equipment Electric Maintenance Overhead Expenses Dispatch of Medium Section Products Raw Material Yard 14 - Stand Cold Forming Machines Finishing Product Unit Centralised Greasing & Oiling System Roll Grinding Shop Mechanical Maintenance Electrical Maintenance Machine Room Overhead Expenses				
7561 6829	Finished Products Storage Hadisolb Hospital - Tebbin				

Appendix 6
Statements of Actual Costs by Processes

Processes		(1)	Aswan Mines		
Years Description	1975	1976	1977	Ž	1979
Net Raw Materials					þ
Derating Costs					
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	n.a. n.a. n.a. n.a.	582,229 25,921 166,787 4,333 257,940	603,574 12,308 101,384 4,062 216,118	739,676 11,552 107,930 4,139 207,246	
Operating Costs "Total"	n.a.	1,037,194	937,446	1,070,513	
Total Costs Quantity Produced	n.a.	1,037,194 476,000	937,446	1,070,513 58,457	
Costs per Tonne	n.a.	10.323	9.950	18.313	
		(2) Ba	haria Mines	3	
Net Raw Materials					
Operating Costs					
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	n.a. n.a. n.a. n.a.	524,611 56,554 223,869 3,656 1,349,152 (86,301)	412,711 65,686 379,779 3,646 665,910 (53,781)	901,419 102,087 472,529 - 998,167 (812,053)	1,040,761 102,130 609,964 44,289 1,206,637 (91,518
Operating Costs	n.a.	2,077,099	1,473,951	1,662,149	2,912,263
"Total" Total Costs Quantity Produced	n.a.	2,077,099	1,473,951 1,303,946	1,662,149 1,415,620	2,912,26 1,585,17
Costs per Tonne	n.a.	1.887	1.130	1.174	1.83

Processes		(3) Ber	ni Khalid Q	uarry	
Years Description	1975	1976	1977	1978	1979
Net Raw Materials					
Operating Costs					
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	n.a. n.a. n.a. n.a. n.a. n.a.	244,849 7,843 180,441 19,648 170,050 (243)	304,172 8,874 193,504 2,083 150,611	394,476 24,520 245,849 10,503 174,138 (99,347)	445,767 25,243 316,173 6,937 193,577 (6,972)
Operating Costs "Total"	n.a.	622,588	659,244	749,439	980,725
Total Costs Quantity Produced	n.a. n.a.	622,588 269,824	659,244 367,306	749,439 414,918	980,725 336,556
Costs per Tonne	n.a.	2.307	1.796	1.608	2.914
	1	(4) Re	fai Quarry		
Net Raw Materials					
Operating Costs					
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads	n.a. n.a. n.a. n.a.	188,471 18,178 115,422 5,230 79,145	205,804 18,410 4,227 2,819 68,858	265,384 17,056 106,047 3,607 84,403	273,568 14,279 110,435 1,063 108,578
Internal Overs & Services Sold		(346)		(5,534)	(16,121)
Operating Costs	n.a.	406,100	390,118	469,963	491,802
Total Costs Quantity Produced	n.a.	406,100 320,883	390,118 296,668	469,963 297,726	491,802 255,036
Costs per Tonne	n.a.	1.266	1.315	1.579	1.928

Processes		(5) Å	labia Quarry		
Years Description	1975	1976	1977	1978	1979
Net Raw Materials			, in the second	38.5	,
Operating Costs					
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	n.a. n.a. n.a. n.a. n.a.	122,526 4,562 54,203 4,194 49,261	138,880 4,726 43,423 2,721 43,680 (44)	161,698 6,238 62,126 1,175 49,839	198,983 4,621 71,621 1,384 54,833 (1,629)
Operating Costs "Total"	n.a.	234,746	233,386	281,076	329,813
Total Costs Quantity Produced	n.a. n.a.	234,746 91,310	233,386 87,264	281,076 101,751	329,813 135,839
Costs per Tonne	n.a.	2.571	2.674	2.762	2.428
		(6) 5	Sinter 1		
Net Raw Materials	2,657,540	3,764,350	3,985,187	3,326,978	3,305,621
Operating Costs Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	117,091 96,725 202,186 213,231 477,818	116,514 262,960 367,868 116,052 692,734	94,201 271,462 444,407 69,505 658,000	211,798 266,832 370,309 128,395 1,010,214	222,781 284,813 944,621 169,474 682,274
Operating Costs	1,107,051	1,556,128	1,537,630	1,987,548	2,303,963
Total Costs Quantity Produced	3,764,591 258,129	5,320,418 331,972	5,522,817 334,493	5,314,526 282,250	5,609,584 234,241
Costs per Tonne	14.584	16.027	16.511	18.829	23.948

Processes	(7) Sinter 2						
Description Years	1975	1976	1977	1978	1979		
Net Raw Materials	7,596,046	8,506,939	9,882,548	10,785,469	16,110,487		
Operating Costs							
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & . Services Sold	496,824 1,288,567 376,560 613,600 1,193,833	406,988 687,738 909,723 512,646 1,680,114	253,877 638,569 1,360,028 210,789 903,874	440,079 902,730 1,630,194 527,011 1,210,872	563,910 1,459,032 2,427,070 719,494 1,655,230		
Operating Costs	3,969,384	4,206,209	3,367,137	4,710,886	6,824,736		
Total Costs Quantity Produced	1,565,430 640,952	12,713,148 743,283	13,249,685 873,273	1 ' ' - 1	22,935,223 1,173,359		
Costs per Tonne	19.118	17.104	15.172	17.035	19.547		
		(8)	Blast Furna	ces 1 & 2			
Net Raw Materials	15,817,644	14,001,391	14,556,172	15,776,755	12,552,005		
Operating Costs Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	157,150 505,287 225,143 205,072 706,153	357,977 165,628 332,878	495,845 205,547 259,420	726,952 154,941 474,480	401,830 261,839 674,051		
Operating Costs	1,798,805	1,719,268	1,767,24	2,321,400	2,423,506		
Total Costs Quantity Produced	17,616,449 172,757	15,720,659	1 ~ 1/	8 18,098,155 6 168,020	14,975,511		
Costs per Tonne	101.972	101.115	103.21	7 107.714	115.38		

Processes	(9) Blast Furnace 3					
Years Description	1975	1976	1977	1978	1979	
Net Raw Materials	25,361,830	29,662,466	30,132,002	30,826,771	29,756,293	
Operating Costs						
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	235,357 1,734,330 145,714 272,629 1,090,291	267,039 1,787,274 249,430 418,047 1,520,436		157,907 686,905	202,632 1,421,181 1,390,760 1,101,366 1,477,989	
Operating Costs	3,478,321	4,242,226	3,262,832	3,901,716	5,593,928	
Total Costs Quantity Produced	28,840,151 317,292					
Costs per Tonne	90.118	83.994	70.459	74.711	100.826	
		(10)	Blast Furna	ices 4		
Net Raw Materials					21,239,670	
Operating Costs Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold					63,321 1,035,760 41,003 456,174 667,410	
Operating Costs					2,263,668	
"Total" Total Costs Quantity Produced					23,503,338 268,787	
Costs per Tonne					87.442	

Processes	(11) Pig Pouring Line					
Description Years	1975	1976	1977	1978	1979	
Net Raw Materials	10,013,575	8,832,383	6,281,532	5,951,364	11,161,111	
Operating Costs						
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & 4 Services Sold	52,926 28,684 20,882 8,693 449,391	66,394 34,635 31,319 10,523 246,806	19,988 26,810 33,834 1,341 190,633	30,541 26,314 13,120 2,854 169,020	39,772 38,030 94,441 3,281 296,148	
Operating Costs "Total"	560,576	389,677	272,606	241,849	471,672	
Total Costs Quantity Produced	10,574,151 119,402	922,060 105,345	6,554,138 102,129	6,193,213 84,300	11,632,783	
Costs per Tonne	88.559	87.542	64.175	73.466	104.945	
		(12))ld Mixer			
Net Raw Materials	17,149,620	13,723,264	15,405,714		3,753,722	
Operating Costs Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	15,477 53,094 33,614 33,400 22,797	111,178	26,754 58,936		37,852 62,204 72,394 126,968 26,769	
Operating Costs	158,382	228,896	207,596		326,187	
"Total" Total Costs Quantity Produced	17,308,002 165,359	1 000	15,613,310 147,696		4,079,909 37,796	
Costs per Tonne	104.669	101.596	105.712		107.946	

Processes	(13) New Mixer					
Years Description	1975	1976	1977	1978	1979	
Net Raw Materials	19,857,332	26,833,085	24,709,199	7 11 11 1	6,905,015	
Operating Costs						
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	9,776 13,862 31,562 5,945 10,664	16,561 23,460 6,087 17,232 31,611	9,615 20,443 356,751 8,428 17,887		22,467 30,642 455,458 16,649 13,793	
Operating Costs "Total"	71,809	94,951	410,124		539,009	
Total Costs Quantity Produced	19,929,141 218,039	26,928,036 317,105	25,119,323 350,547		47,444,024 476,145	
Costs per Tonne	91.402	84.918	71.658		99.642	
		(14)	Thomas Conve	rtors		
Net Raw Materials	17,674,242	15,009,027	16,992,431	13,089,494	4,168,334	
Operating Costs						
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	224,388 171,381 957,726 211,440 1,200,224	240,716 1,065,713 284,586	213,583 1,279,768 176,224		381,306 94,538 684,186 310,146 1,020,620	
Operating Costs	2,871,688	3,197,11	5 3,537,887	4,380,573	2,490,796	
Total Costs Quantity Produced	20,545,930	18,206,14	20,530,318	17,470,067 100,465	6,659,130 24,935	
Costs per Tonne	172.13	180.18	7 184.795	173.892	267.055	

Processes	(15) Electric Furnaces				
Years					
Description	1975	1976	1977	1978	1979
Net Raw Materials	1,511,540	2,131,089	2,167,183	1,975,054	2,412,308
Operating Costs					
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	130,352 296,862 550,725 101,022 409,486	100,405 165,244 819,435 266,885 654,235	86,264 193,026 730,750 48,579 742,338	189,640 190,442 856,039 130,349 778,869	192,921 286,953 1,102,788 218,686 1,576,874
Services bord					
Operating Costs "Total"	1,588,447	2,006,204	1,800,957	2,145,339	3,378,222
Total Costs Quantity Produced	3,099,987 32,226	4,137,293 45,718	3,968,140 45,773	4,120,393 41,978	5,790,530 49,546
Costs per Tonne	96.196	90.496	86.692	98.155	116.873
		(16))xygen Conve	rtors	
Net Raw Materials	21,379,299	29,413,759	31,467,255	39,046,665	63,462,996
Operating Costs Wages Fuel & Energy Spares & Consumables Work-shop services	347,444 151,898 1,214,125 291,815	614,461	191,055 1,264,510 803,182	175,226 248,044 1,672,858 958,090 1,073,586	316,722 310,648 1,942,127 1,165,763 2,810,997
Overheads Internal Overs & Services Sold	886,329	1,244,915	-	1,073,30	,
Operating Costs	2,891,611	4,233,129	3,475,464	4,127,804	6,546,257
"Total" Total Costs Quantity Produced	24,270,910	33,646,888	3 - A A A F 7	43,174,469	70,009,253 564,054
Costs per Tonne	118.922	110.729	91.149	103.727	124.118

Processes	(17) Liquid Steel for Continous Casting					
Description	1975	1976	1977	1978	1979	
Net Raw Materials	n.a.	n.a.	n.a.	n.a	57,876,474	
Operating Costs						
Wages Fuel & Energy Spares & Consumables Work-shop services	n.a. n.a. n.a.	n.a. n.a. n.a.	n.a. n.a. n.a.	n.a. n.a. n.a.	n.a. n.a. n.a.	
Overheads Internal Overs & Services Sold	n.a.	n.a.	n.a. n.a.	n.a.	n.a.	
Operating Costs	n.a.	n.a.	n.a.	n.a.	5,886,978	
Total Costs Quantity Produced	n.a. n.a.	n.a. n.a.	n.a. n.a.	n.a. n.a.	63,763,452 518,849	
Costs per Tonne	n.a.	n.a.	n.a.	n.a.	122.894	
		(18)	Continuous C	asting		
Net Raw Materials	23,686,660	32,785,470	33,633,665	41,158,539	61,159,378	
Operating Costs Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	431,666 256,787 947,051 288,917 2,056,616	352,463 1,381,175 802,158	276,923 1,969,045 302,809	421,225 385,881 1,735,365 612,678 1,210,899	663,935 435,699 4,160,995 879,864 1,193,017	
Operating Costs	3,981,037	4,701,859	4,307,004	4,366,048	7,333,510	
"Total" Total Costs Quantity Produced	27,667,697 189,484	37,487,329	37,940,669 354,750	45,524,587 373,409	68,492,888	
Costs per Tonne	146.016	132.778	106.950	121.916	148.840	

Processes	(19) Blooming					
Years Description	1975	1976	1977	1978	1979	
Net Raw Materials	25,989,013	24,257,051	25,702,694	21,769,694	23,671,403	
Operating Costs						
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & . Services Sold	99,955 133,533 317,110 120,889 191,205	105,606 125,597 341,099 327,509 217,171	1	140,782 224,493 448,657 452,162 206,154	161,342 242,036 458,112 500,352 178,006	
Operating Costs "Total"	862,692	1,116,982	1,037,886	1,472,248	1,539,848	
Total Costs Quantity Produced	26,851,705 160,845	25,374,033 144,345		23,241,942 129,552	25,211,251 128,056	
Costs per Tonne	166.941	175.787	180.229	179.402	196.876	
		(20)	Heavy Secti	lons		
Net Raw Materials	11,241,934	10,821,792	11,074,262	2 11,584,279	12,180,793	
Operating Costs Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	142,657 102,550 185,784 121,982 410,204	92,37 237,16 107,63	2 125,71 9 206,48 2 71,08	1 167,503 3 170,757 0 138,360	215,777 169,520 208,181	
Operating Costs	963,177	1,211,15	3 1,098,86	1 1,486,632	1,591,962	
"Total" Total Costs Quantity Produced	12,205,111	12,032,94	12,173,12 9 55,36	13,070,913	1 13,772,755 61,623	
Costs per Tonne	195.44	214.03	219.87	228.10	223.497	

Processes	(21) Light Sections					
Nescription Years	1975	1976	1977	1978	1979	
Net Raw Materials 1	.1,298,147	10,784,077	10,842,131	11,243,520	13,202,797	
Operating Costs						
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	133,770 64,972 104,217 137,459 302,216	133,417 71,019 157,687 227,802 528,806	111,562 81,022 111,136 140,821 614,133	253,804 112,086 106,626 347,240 707,128	296,812 148,148 158,781 326,408 674,765	
Operating Costs	742,634	1,118,731	958,674	1,526,884	1,604,914	
	12,040,781 51,917	11,902,808 45,169		12,770,404 57,758	14,807,711 68,993	
Costs per Tonne	231.922	263.516	252.530	221.101	214.627	
		(22)	Plates Roll	ing		
Net Raw Materials	4,979,062	6,122,230	3,891,23	5,930,241	9,118,309	
Operating Costs Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	164,503 120,436 164,632 77,934 167,019	48,550 242,88 117,66	36,86 0 213,65 9 108,73	5 208,176 8 232,430 5 155,733	217,733 216,087 235,087	
Operating Costs	694,928	889,71	7 745,36	1,320,162	1,488,624	
"Total" Total Costs Quantity Produced	5,673,999	7,011,94	4,636,59 30,51	7,250,403 38,433	10,606,933	
Costs per Tonne	147.28	2 160.20	151.92	188.65	218.400	

Processes	(23). Sheets					
Years Description	1975	1976	1977	1978	1979	
Net Raw Materials	1,979,480	1,537,619	941,148	1,207,348	950,873	
Operating Costs	·					
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & .	54,316 28,246 20,634 52,505 79,231	63,278 17,414 93,454 111,886 100,172	45,817 10,760 12,613 54,265 75,270	103,135 23,742 10,373 63,295 113,527	114,384 15,893 12,357 76,971 143,994	
Services Sold						
Operating Costs "Total"	234,932	386,204	198,725	293,326	363,599	
Total Costs Quantity Produced	2,214,412	1,923,823 9,395	1,139,873 6,561	1,500,674 6,359	1,314,472	
Costs per Tonne	178.631	204.768	173.747	236.008	306.989	
		(24)	Hot Product	ion		
Net Raw Materials	18,603,584	24,602,094	22,371,104	25,587,649	40,296,311	
Operating Costs Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	119,185 1,202,740 141,061 203,193 929,970	432,062 201,459 539,776	1,043,075 174,203 298,150	1,184,838 3 284,834 339,505	267,963 1,246,850 272,492 295,677 1,109,527	
Operating Costs	2,596,14	9 2,052,48	9 2,326,06	1 2,581,762	3,192,50	
"Total" Total Costs Quantity Produced	21,172,73	3 26,654,58 8 181,12	3 24,697,16 4 199,82	5 28,169,411 9 210,235	43,488,82	
Costs per Tonne	118.74	9 147.16	2 123.59	133.990	163.03	

Processes	(25) Pickling Line					
Years Description	1975	1976	1977	1978	1979	
Net Raw Materials	3,069,414	14,925,197	13,750,115	15,210,464	L8,777,652	
Operating Costs				2		
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	50,168 395,218 85,553 27,278 328,991	35,523 174,249 132,841 36,520 530,056	28,344 138,206 157,094 42,719 824,163	51,930 585,705 92,219 87,867 171,556	100,054 355,922 1,250,188 128,554 364,115	
261 A1662 2017						
Operating Costs "Total"	887,208	909,189	1,190,526	989,277	2,198,833	
	13,956,622 112,185	15,834,386 99,123	14,940,641	16,199,741 108,823	20,976,485 112,887	
Costs per Tonne	124.407	159.746	138.549	148.863	185.819	
		(26)	Reversing L	ine		
Net Raw Materials	13,866,855	15,215,824	15,201,391	15,985,965	20,633,200	
Operating Costs Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs &	41,015 264,128 119,098 53,830 386,358	327,936 140,273 83,835	293,403 146,554 115,128	283,197 165,580 111,821	346,744 466,981 210,800	
Services Sold	-	010 00	898,788	930,886	1,440,59	
Operating Costs "Total" Total Costs Quantity Produced	14,731,286 111,775	4 16,033,91	5 16,100,17	9 16,916,851	22,073,79	
Costs per Tonne	131.79	9 168.66	3 146.73	9 157.330	198.10	

Processes	(27) Soaking Line					
Years Pescription	1975	1976	1977	1978	1979	
Net Raw Materials	15,025,122	16,188,624	15,930,422	17,218,353	21,391,739	
Operating Costs						
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & . Services Sold	36,178 198,102 35,509 12,934 60,977	42,409 227,369 30,182 6,173 56,223		53,892 382,627 81,998 23,500 26,537	74,621 320,835 132,465 79,075 124,103	
Operating Costs "Total"	343,700	362,356	370,063	568,554	731,099	
Total Costs Quantity Produced	15,368,822 112,896	16,550,980 95,694			22,122,838 108,156	
Costs per Tonne	136.133	172.958	151.167	162.772	204.546	
	1	(28)	Temper Line			
Net Raw Materials	15,126,773	16,226,738	16,098,236	17,962,802	21,763,060	
Operating Costs						
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	36,259 85,359 26,103 24,218 154,197	65,286 38,193 20,838	55,097 47,356 33,658	103,027 68,985 27,688	115,079 83,133 81,585	
Operating Costs	326,136	271,730	240,764	289,001	454,884	
"Total" Total Costs Quantity Produced	15,452,909		4 16,339,000 105,845	1	22,217,944	
Costs per Tonne	138.647	176.84	6 154.368	167.135	210.516	

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Processes		(2	9) Flying S	hear			
Description Years	1975	1976	1977	1978	1979		
Net Raw Materials	14,846,594	15,422,764	14,334,039	16,689,037	18,895,649		
Operating Costs							
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	60,839 56,319 65,131 21,548 251,012	69,743 49,231 84,096 85,219 393,585	41,461 19,928 106,338 45,719 423,951	95,325 53,970 123,788 102,174 534,011	101,384 95,963 278,378 200,661 538,521		
Operating Costs "Total"	454,849	681,874	637,397	909,268	1,214,907		
Total Costs Quantity Produced	15,301,443 150,569	1		17,598,305 96,055	20,110,556 87,257		
Costs per Tonne	144.942	189.231	168.414	183.211	230.476		
		(30)	Slitting Sh	ear	V		
Net Raw Materials	426,879	789,286	997,459	1,536,596	3,499,463		
Operating Costs Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	11,517 32,678 2,919 17,413 31,407	14,507 5,372 27,941	8,138 13,626 16,036	8,673 4,218 4,593	26,464 40,760		
Operating Costs	95,934	103,710	94,021	93,675	186,586		
"Total" Total Costs Quantity Produced	522,813 2,913		1,091,480	1,630,271 8,778	3,686,049 16,547		
Costs per Tonne	179.445	206.334	177.697	185.732	222.762		

Processes	(31) Combination Shear							
Years Description	1975	1976	1977	1978	1979			
Net Raw Materials	8,214,004	10,125,295	9,605,770	11,733,252	8,997,247			
Operating Costs				, s	· No			
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & * Services Sold	27,080 72,989 12,189 11,049 190,189	37,768 57,188 45,565 33,077 303,222	22,769 108,345 35,133 34,982 349,064	123,542 37,178 88,075	48,074 96,609 80,782 338,918 501,684			
Operating Costs "Total"	313,499	476,820	550,293	705,583	1,066,067			
Total Costs Quantity Produced	8,527,503 63,518	10,602,115 67,252		12,438,835 84,767	20,063,314 113,586			
Costs per Tonne	134.256	157.646	133.997	146.741	176.636			
		(32)	Galvanising	3				
Net Raw Materials	318,952	999,315	1,055,892	41,673	651,094			
Operating Costs Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	31,733 11,071 121,240 17,186 49,437	30,355 63,178 72,523	7,944 102,96 20,17	40,777 7 237,729 5 79,244	69,572 33,294 34,409 109,430			
Operating Costs	230,66	389,496	296,73	8 66,633	280,105			
"Total" Total Costs Quantity Produced	549,61	1,388,81	1,352,63	108,306				
Costs per Tonne	304.69	2 298.31	3 238.98	578.86	388.089			

Processes	(33) Corrugation							
Years Description	1975	1976	1977	1978	1979			
Net Raw Materials	59,473	106,405	199,428	35,939	148,072			
Operating Costs								
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	2,642 321 217 8,452	614 344 26 121 8,528	592 1,723 30 16 10,781	1,091 1,733 2,293 3 5,699 (3,271)	1,243 833 - - 10,907			
Operating Costs "Total"	11,632	9,633	13,142	7,548	12,983			
Total Costs Quantity Produced	71,105	116,038 408	212,570 931	43,487 147	161,055 391			
Costs per Tonne	172.623	284.504	228.327	295.227	411.684			
		(34) C	old Forming					
Net Raw Materials	n.a.	n.a.	n.a.	580,812	1,341,941			
Operating Costs Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	n.a. n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a.	n.a. n.a. n.a. n.a. n.a. n.a.	43,931 27,319 69,483 34,754 246,944	23,038 57,486 1,317 59,815 214,619			
Operating Costs	n.a.	n.a.	n.a.	422,431	356,275			
Total Costs Quantity Produced	n.a.	n.a. n.a.	n.a. n.a.	1,003,243 4,017	1,698,216 7,853			
Costs per Tonne	n.a.	n.a.	n.a.	249.752	216.252			

Processes	(35) Fertiliser Grinding							
Description	1975	1976	1977	1978	1979			
Net Raw Material	3,717	114,764	129,976	118,264	82,432			
Operating Costs	•			4				
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & * Services Sold	27,174 3,846 84,558 19,554 23,772	36,828 5,343 32,982 16,004 29,159	21,975 6,596 19,806 5,823 16,365	60,891 7,360 37,827 11,461 18,546	75,777 6,809 24,068 19,047 25,643			
Operating Costs "Total"	158,904	120,316	70,565	136,085	151,344			
Total Costs Quantity Produced	162,621 33,177	235,080 26,570	200,541 30,087	254,349 27,377	233,776 19,082			
Costs per Tonne	4.902	8.848	6.665	9.291	12.251			
		(36) L	imestone Bur	ning				
Net Raw Materials	74,481	82,849	90,773	107,770	75,413			
Operating Costs Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	28,705 69,884 10,951 11,175 73,762	36,709 20,644 8,344 3,946 80,877	20,476 19,604 5,465 6,504 91,668	49,777 26,264 1,891 7,951 199,216	58,335 14,784 1,363 10,391 85,879			
Operating Costs	194,477	150,520	143,717	285,099	170,752			
Total Costs Quantity Produced	268,958 26,212	233,369	234,490 20,072	392,869 20,226	246,165 5,320			
Costs per Tonne	10.261	12.065	11.683	19.424	46.275			

Processes	(37) Old Dolomite Burning							
Description	1975	1976	1977	1978	1979			
Net Raw Material	123,860	156,252	172,418	135,242	86,472			
Operating Costs				-				
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	30,663 289,855 9,006 23,090 34,020	35,272 255,719 3,656 12,944 19,808	20,465 284,953 23,633 6,599 20,597	43,034 6,857 274,536 4,874 20,336	53,082 1,943 170,586 8,337 23,864			
Operating Costs "Total"	386,634	327,399	356,247	349,637	257,812			
Total Costs Quantity Produced	510,494 15,142	483,651 14,360	528,665 16,460	484,879 15,728	344,284 7,221			
Costs per Tonne	33.714	33.680	32.117	30.828	47.679			
		(38) Do	lomite Mixi	ng				
Net Raw Materials	503,251	541,650	566,902	562,473	356,485			
Operating Costs Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	11,482 36,570 (52,300) 5,721 13,453	12,161 19,619 99,610 42,531 (29,329)	7,397 11,522 27,475 45,281 4,659	18,192 2,069 13,564 84,054 27,691	22,247 1,555 5,730 93,404 14,758			
Operating Costs	14,926	144,592	96,334	145,570	137,69			
"Total" Total Costs Quantity Produced	518,177 14,341	686,242 15,470	663,236 16,876	708,043 17,353	494,17 7,45			
Costs per Tonne	36.133	44.361	39.300	40.802	66.29			

		and the second s			ie postalija s		
Processes	(39) Dolowite Bricks						
Description	1975	1976	1977	1978	1979		
Net Raw Material	191,869	233,724	237,774	253,446	134,759		
Operating Costs							
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & . Services Sold	19,057 42 20,383 27,954 8,027	21,789 102 10,191 - 894	12,656 109 150,614 867 736	28,642 120 32,175 7,343 459	33,940 257 40,074 4,148 370		
Operating Costs "Total"	75,463	32,976	164,982	68,739	78,789		
Total Costs Quantity Produced	267,332 5,343	266,700 5,270	402,756 6,049	322,185 6,212	213,548 2,034		
Costs per Tonne	50.037	50.606	66.577	51.867	105.008		
		(40) Do	olomite Bott	om			
Net Raw Materials	63,013	76,517	68,608	72,796	45,281		
Operating Costs Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	21,351 6,435 5,861 14,799 8,332	33,113 11,074 18,692 - 1,067	20,768 12,739 87,916 10,562 1,086	51,006 3,695 39,398 34,711 784	58,396 6,188 4,558 4,188 1,078		
Operating Costs	56,778	63,946	113,071	129,594	74,408		
Total Costs Quantity Produced	119,791 1,747	140,463 1,725	201,679	202,390 1,784	119,689 683		
Costs per Tonne	68.581	81.412	115.540	113.437	175.155		

Processes	(41) New Limestone Burning							
Years Description	1975	1976	1977	1978	1979			
Net Raw Material	214,480	197,210	403,106	311,271	644,721			
Operating Costs					9			
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	67,193 64,230 12,983 43,900 151,240	84,306 107,361 1,974 51,895 331,523	56,784 123,445 993 8,206 206,576	50,616 164,345 1,510 10,592 212,873	56,462 189,619 28,071 17,524 406,839			
Operating Costs	339,546	577,059	396,004	439,936	698,515			
Total Costs Quantity Produced	554,026 35,134	774,269 34,878	799,110 44,024	751,207 48,757	1,343,236 68,355			
Costs per Tonne	15.769	22.199	18.152	15.407	19.651			
		(42) N	ew Dolomite	Burning				
Net Raw Materials	44,070	79,820	56,981	41,708	97,629			
Operating Costs Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	48,505 9,234 72,569 42,262 49,586	59,896 33,956 85,470 36,431 112,337	16,324 35,749 89,888 43,186 89,108	44,887 72,693 97,906 48,342 97,593	64,952 122,296 133,997 61,937 160,188			
Operating Costs	222,156	328,090	274,255	361,421	543,37			
"Total" Total Costs Quantity Produced	266,226 3,453	407,910 4,729		403,129 3,781	640,99 6,79			
Costs per Tonne	77.104	86.263	85.673	106.634	94.40			

Processes	(43) New Dolomite Mixing							
Description	1975	1976	1977	1978	1979			
Net Raw Materials	361,934	505,313	421,684	444,134	685,767			
Operating Costs	·			<u> </u>	***			
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	9,185 1,733 54,800 17,296 9,636	14,103 2,495 17,635 41,673 20,809	7,946 1,582 8,929 7,833 3,125	8,629 2,177 946 39,104 11,158	18,320 6,017 1,100 58,068 8,223			
Operating Costs "Total"	92,650	96,715	29,415	62,014	91,728			
Total Costs Quantity Produced	454,584 4,456	602,028 5,323	451,099 4,526	506,148 3,970	777,459 6,610			
Costs per Tonne	102.022	113.108	99.668	127.506	117.629			
	(44)	New Dolomi	te Squeeze	\$ \$"	; *; ;			
Net Raw Materials	409,603	543,099	429,798	482,215	742,289			
Operating Costs								
Wages Fuel & Energy Spares & Consumables Work-shop services Overheads Internal Overs & Services Sold	5,600 196 55,502 13,750 52,664	11,674 1,760 38,077 49,660 119,433	7,061 - 4,051 14,419 89,400	18,688 - 38,383 14,966 59,130	23,466 140 5,003 19,233 123,801			
Operating Costs	127,712	220,604	114,931	131,167	171,643			
Total Costs Quantity Produced	537,315 3,978	763,703 4,656	544,729 4,230	613,382 3,715	913,933			
Costs per Tonne	135.061	164.011	128.774	165.123	147.64			

HADISOLB BASE PRICES COMPARED WITH INTERNATIONAL PRICE LEVELS

US \$ Per Metric Ton

Domestic Base	CR Sheets	HR Sheets	Plates	Struc- turals	HR Bars	Rebars
Hadisolb at \$1.43 = LE ⁴ December 1977	315	300	286	279	293	N.A.
EEC Producers Guide Min Country Averages, January 1979 - W. Germanym, January 1979	440 446	351 357	351 357	359 365	344 349	285 289
EEC Import Reference, December 1978	427	352	352	-	358	288
USA Producers List ¹ , January 1979	435	366	394	392	354	298
USA Import Trigger, 1st Quarter 1979 ²	434	370	401	346	384	344
Japan, Dealer's Wholesale, October 1978	497	454	449	328	326	سد
EXPORT QUOTATIONS						
EEC, January 1979 ³	360	305	305	310	295	280
Japan - September 1978 ³	332	285	300	300	280	290
- November 1978 ³	345	290	310	320	300	300
- December 1978 ³	345	290	320	320	300	300
- January 1979 ³	345	290	340	340	300	300

NOTES:

- 1 FOB mill, Eastern and Central USA
- ² CIF, Great Lakes, including 2.5 percent importers margin
- 3 FOB, Port of Exit
- 4 The HADISOLB prices stated as of December 1977 should be subject to review and escalation due to increase in cost of raw materials principally coke costs.

SOURCES: Europe, Japan Metal Bulletin, HADISOLB and UEC.

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