# 

#### A). PROFIT MARGIN

Profit margin is the margin of profit on sales. It is the per cent of profit which is left out after deducting all the expenses and provisions from sales. Profit margin depends upon the operating expenses of the company. However, an increase in the sales volume is favourable, but not always, to profit margin. If an increase in the sales volume is accompanied by a substantial rise in the operating expenses, a lower profit margin may have to be generated. The main factors affecting the size of profit margin of the company are as follows:

- The ability of the management to control and curb the operating expenses and
- 2) The ability of the management to implement suitable pricing policy.

Each of the above facators must be kept in harmony with each other. If the operating expenses ratio of the company is 100 per cent, the profit maragin will be zero. On the other hand, if the operating expenses ratio is low, it leaves a high percentage of profit marin. The management of the company should try to curb and control the operating expenses with suitable selling price policy with the present competitive market.

The managaement of the company should always try to maximise the profitability to survive and to grow over a period of time. The shareholders, investors, creditors are interested to know the operating efficiency of the firm and its ability to ensure

adequate return. The return on investment is considered to be an important and basic measure of testing the profitability of the company. Return on investment consists of two essential parts i.e. profit margin and assets turnover. In fact, the study of profit margin and assets turnover are equally important as a return on investment. An analysis of profitability of selected eight industrial companies in Jordan, using the profit margin and assets turnover, would reflect the performance and efficiency of these companies over eleven years. Profit Margin is used for testing the management's ability and efficiency in operating the company successfully to recover all the payout of the company and also to leave reasonable margin of profit which are to be distributed equally among the shareholders according to their shares.

Profit margin results from business operations and is represented by deducting total expenditure from total revenue. A high profit margin indicates suitable return on shareholder's shares and are reflects the efficiency and the success of the management. As Khan and Jain write "a firm with a low profit margin can earn a high rate of return on investment if it has a higher inventory turnover. The profit margin should, therefore, be evaluated in relation to the turnover ratio. In other words, the overall rate of return is the product of the net profit margin and the turnover ratio".

<sup>1.</sup> Khan M.Y., Jain P.K., Financial Management, Tata Mc Graw Hill Publishing Company Limited, New Delhi, 1984, P.139.

## Gross Profit Margin

Gross profit margin is the excess of sales revenue over the cost of goods sold and it keeps the balance for operating expenses, income tax, etc. Gross profit margin is calculated by dividing gross profit by sales. It shows the efficiency of the management in the operation and in fixing the price policy. A high gross profit margin indicates the ability of the company to manufacture its products at a low cost.

Ralph D. Kennedy and Stewart states: Gross Profit Margin may increase due to:

- Higher sales price and the cost of goods sold remaining constant;
- 2) Lower cost of goods sold, sales price remaining same;
- 3) A combination of variation in sales prices and cost, the margin widening, and
- 4) An increase in the proportionate volume of higher 2 margin .

The above mentioned factors are guidelines to the management on how to improve the gorss profit margin of the company. The management of the company should investigate the lower gross profit margin whenever it occurs. The lower gross profit margin may reflect the following:

Ralph D. Kennedy and Stewart Y. McMullan, Financial Statements Form, Analysis and Interpretation, 5th edition Homewood, Ilinois Richard D. Irwin Inc., 1968, P. 53

- 1) a higher cost of goods sold due to the firm's inability to settle adequate policy to purchases raw materials at favourable price;
- 2) a higher cost of production due to inefficient utilisation of plant and machinery; and
- 3) a fall in the selling prices or market reduction in the selling price of the company to obtain an increase in the sales volume and the cost of goods sold remain constant.

Gross profit ratio is calculated with the help of the following formula:

The gross profit margin of industrial companies in Jordan selected for study has been calculated by deducting the cost of goods sold from the value of net sales. Notably, the non-operating income and the non-operating expenses have not been taken into consideration while arriving at these figures.

# COST OF GOODS SOLD

The cost of goods sold to net sales ratio in the industrial companies selected for study in Jordan for the period of eleven years is shown in table 3.3.

The table shows that the cost of goods sold for Arab Pharmaceutical Manufacturing Co. Ltd., Jordan Petroleum Refinery Co. Ltd., Jordan Phosphate Mines Co. Ltd., the Industrial Commercial and Agricultural Co. Ltd., Jordan Pipes Manufacturing Co. Ltd. and Jordan Cement Factories Co. Ltd. is always less than

Table : 3.1 Cost of Goods Sold of the Studied Companies from 1975 to 1985

(Amount in JDs)

Sr. No. 1	i Hane of the Company	2761	976	Years 1977	1978	6.61	1980	1861	2861	1983	1991	1 382
	Arab Pharmaceutical Manufacturing Co.Ltd.	375252	1396859	1787790	1816643	1672137	2442291	3131154	3467391	40.51	4666793	6327269
r4	Jordan Petroleum  Refinery Co.Lto.	7057979	979570451	11262997	13694901	13425227	13313802 22561599 40271026	22561599	46271926	2.26+03	2.6E+08	2.55+08
Mi	Jordan Phosphate	7319315	12525371	11938027	14325724	19349340	19349340 33819409 42626657 47949805 452589972 64667203 56741004	4262657	37949805	45238992	64667203	56741904
** ***	Industrial Commercial and Agricultural Co.Ltd	1974910	2786088	1205090	2094552	1238443	4182832	5522325	6629247	4951999	250250	5097256
tr5	liordan Pipes Manufacturing:  Co.Lid				959572	2054936	2330989	3015409	2779539	2208606	2427475	2659304
~o	Arab Fotas Co.Ltd		ŧ	1	1			1	•	24 24 25 25 25 25 25 25 25 25 25 25 25 25 25	43358558 1 <i>6780879 22</i> 131346	212122
r	ldordan Spinning and Heaving Co.Ltd.				757747	883372	1015299	766359	1199013	1199013 1566149 2400016	2400016	1927968
ໝ <b>ົ້</b>	Jordan Cement Factories !  Co.ltd.	2944880	3379801	3956341	3875623	16529502	16529502 19875764 27768007 38026030 28997589 27821550 36735897	27758007	38026030	28997589	27821550	36795897
-		ten (pn )g/r 180 er- dat fån den den ste att att ki		11 che de 100 de	** CO-					****		dia was any ally after new ten above to

Sources : Annual reports of the industrial companies selected for the study

Table : 3.2 Sales of the studied Companies from 1974 to 1985

(Amount in Jus)

Sr. No.	. Name of the Company	- F	1975	Year s 1970	1977	1570	<u> </u>	1980	10	7961	1983	\$0. \$0.	1985
	Arab Pharmaceutical Manufacturing Co.Ltd.	1134832	1933311	1975263	2923402	7062721	3353161	4145324	5439094	6159375	6111943	2n49531 10174389	0174889
ci	Jordan Petroleum Refinary Co.Ltd.	8704831	470 F410 F	14552501	16418302	20873065	23584968	26584997	28670750 48986369	18386360	2.35+08	2,75419	2,45+08
۱	Jordan Phosphate  Mnnes Co.Ltd.	20432831	21182023	70494487	18936231	21224802	18397910 48497909 59025922	606/6481	59025922	56998581	57064800 78974794		# # # # # # # # # # # # # # # # # # #
44°	Industrial Commercial (and Agricultural Co.Ltd	1	2292442	3309450	3739302	3577506	3752023	4908843	6799545	7599833	6169752	7236394	10 10 10 10 10 10
63 	Jordan Pipes Manufacturing	1	1	1		1165553	2576376	1933316	10 10 10 10 10 10 10 10 10 10 10 10 10 1	3288476	2727300	2380181	3429805
-6	Arab Potas	ı	ŧ	j j	f	ţ	t				3677259	14985212	29465245
· · · · · ·	Ubrdan Spinning and Weaving Co.Ltd.	ı	•	,		630085	819533	824896	740599	1934065	1946372	1336379	10 10 10 10 10 10 10 10 10 10 10 10 10 1
oi 	Jordan Cement Factories	t	5382690	4383682	5384738	5580117	19942727 2	23328787	31554957	43500276 40090133		43944809	477788553

Sources : Collected form the annual reports of the studied companies.

Table : 3.3

(Percentage)
Cost Of Goods Soid To Net Sales Ratio

\$ .	Name of the Company	1975	1976	:44.	c) a 1	1979	Years 1930	1981	1982	1981	co cr	#173 1273 127
	Arab Pharasceutical	fc. 24	5. 5.	61.03	59,32	co	50°.91	57.57	55.27	52.62	57,98	co c i
e-i	Jardan Petroleum Refinery Co.Ltd.	58.25	\$6.64	68.61	65.62	17. 67. 97. 171	58.89	73.69	60 17 14	40.50	95.56	נים נים נים
	Jordan Phosphate	10 10 10 10	60.53	63.04	57.5	59.15	44.74	72.22	20 21 21	79,37		6.7
	Industrial Commercial	86,11	<del>2</del>	85,72	86.56	86.32	35, 22	81,32	75, 54	80.45	88.86	88.62
u-5	Jordan Pipes Manufacturing      Co.Ltd	ı	ı	1	60	79.96	*** *** ***	CO 44- CO	<u>.</u>	80.99	78.03	77.83
-d	Arab Potas Co.Ltd.	ı	1	•	ı	1	•	1	1	164.44	111.98	15.25
	Jordan Spinning and Heaving CO.Ltd.	i	į	1	120.26	107.78	123.2	10.47	110.6	84. 84.	79.05	79.07
		54.72	77.1	73.48	69.46	82.89	85.2	82.19	87.42	72.34	63.32	75.96

Sources : Computed from table 3.1 and table 3.2

100 per cent. The cost of goods sold for Arab Potash Co. Ltd. is more than 100 per cent in 1983 dand 1984 but it is less than the sales volume in 1985. The cost of goods sold for Jordan Spinning and Weaving Co. Ltd. is more than its sales in 1978, 1979, 1980, 1981 and 1982 while in the remaining years the sales revenue is more than the cost of goods sold.

The ratio of gross profit to net sales in the industrial companies in Jordan for the period of eleven years covered by this study is represented in table 3.5. It can be seen from table 3.5 that the gross profit ratio in the Arab Pharmaceutical Manufacturing Co. Ltd. registered a decreasing trend in 1976 and 1977 as against 1975, an increasing trend in 1978 and 1979 as against 1977, decreased in 1980 as against 1979, an increasing trend in 1981, 1982 and 1984 as against 1980 and a decreasing trend in 1984 and 1985 as against 1983. Gross Profit margin in the Jordan Petroleum Refinery Co. Ltd. has a fluctuating trend from 1975 to 1978, an increasing trend in 1978 and 1979 as against 1977, a decreasing trend from 1980 to 1983 as against 1979, the ratio highly decreased in 1983 as aginst 1982 and improved slightly in 1984 and 1985. No doubt, a high gross profit margin is a sign of good management. The ratio of gross profit margin to net sales ratio in the Jordan Phosphate Mines Co. has a decreasing trend from 1975 to 1982 and a fluctuating trend in the remaining years under study. The lowest gross profit margin generated by the Arab Pharmaceutical Manufacturing Co. Ltd. was 15.74 per cent in 1982 and the highest was 65.44 per cent in, 1975. Gross Profit margin in the Industrial Commercial

Table : 3.4

Gross Profit of the Studied Companies from 1975 to 1985

										(Amount in	105)	
Sr. Ko.	Name of the Company	1975	1976	7,61	1978	1979	Years 1989	60 61	1982	1983	1984	1982
<b>4-4</b>	Arab Pharmaceutical Manufacturing Colled.	1038558	973404	C 4	1246078	1581024	1704033	2207910	2755338	2396154	50 50 50 50 50 50 50 50 50 50 50 50 50 5	3847612
હ્યું	Jardan Petroleum Retinery Co.Ltd.	3283045	4792050	5155305	7178165 10561741	10561741	3271195	1526019	8615834	5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.5.	11603064 12459865	12459865
ь;	Jordan Phosphate   Mines Co.Ltd.	13862718	3159116	5398204	6899078	9044570 14673500	14678500	15399255	9958777	11773605	14307591 17954335	17954333
w.j	Industrial Commercial (and Agricultural Co.Ltd	318632	5235#2	554212	## C(() () () () () () () () () () () () ()	255	726011	1277320	1570588	1206393	306302	655083
เครื	Jordan Pipes Manufacturing Co.Ltd		1	1	205981	516440	602327	540846	508777	518594	742706	760501
ġ.	Grab Potas Co.Ltd.	1	ı	1	1	1	1	,	,	-(3658589) -(1795667) 727389	-(1795467)	727389
7.	Jordan Spinning and Weaving CO.Ltd.		i	1	-(127662)-(63839)		-(191403)	-(22760)	-(114948)	379923	636363	513165
eri	Jordan Cement Factories (Co.ltd.	2437210	1003881	1428397	1704494	3413225	3452423	5586950	5474245	11092544	16123259	11013051

Sources : Collected from the annual reports of the studied companies

निकास १ ५,५

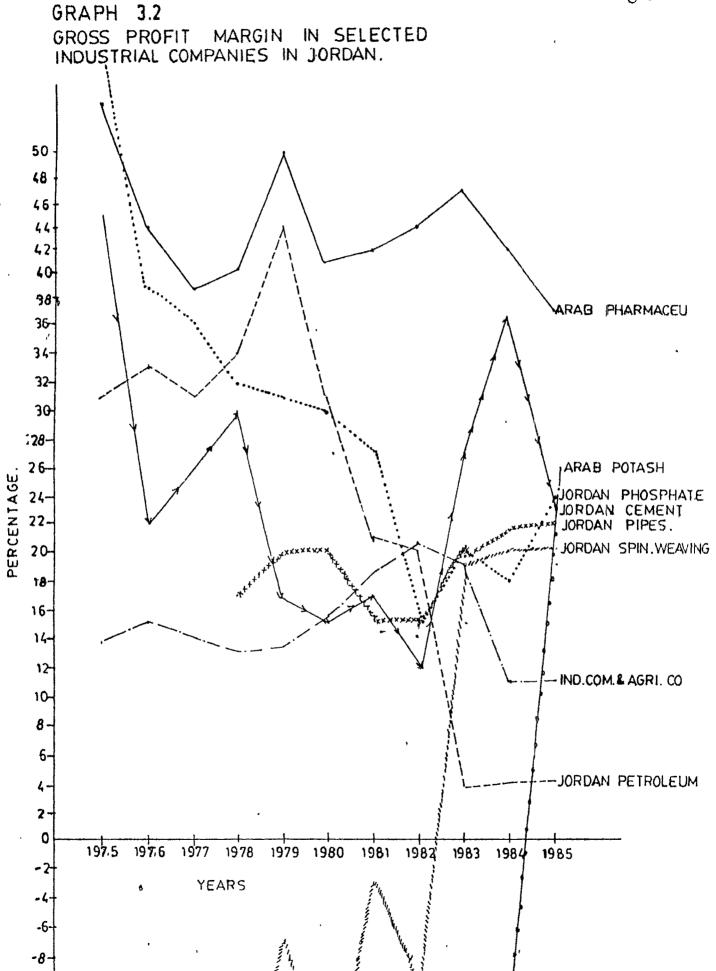
Gross Profit to Net Sales Ratio

ø

(Percentage)

10	Made of the Company	1975	1976	1977	1978	1979	Years 1980	1981	1982	1983	1984	1985	Average
# ****	Arab Pharmaceutical	4. 4. 5.	**.  **3*  ***  ***	35, 97	89.64	23.62	50.14	er 61	1 " + 1"	4. 1.	42.02	45 50 17 17	
гú	Jordan Petroleum Refinery Co.Ltd.	21.74	27.77	31,39	E E	44.03	31.11	21.31	17.62	4.06	**************************************	4.70	23,45
เรื	Jordan Phospnate Mines Co.Ltd.	55 44 44	74.95	33,95	72.50	31.85	39,26	27.73	*** *** #**	20.63		24.03	31.16
# <del>1</del>	Industrial Commercial and Agricultural Co.Ltd	13,89	5.03	۲۰ ۲۰	전: 편: ::::	13.68	50 5-	18.78	20.56	87 87	erg- e-rt " " "	ca t?	15.21
ທຳ	Jordan Pipes Manufacturing!  Co.Ltd	ı	i	i	17.67	20.04	20.33	15.20	,	19.01	21.97	22.17	19.0č
~6	Arab Potas Co.Ltd.	ı	1	ı	ı	1	,	ı	1	-(64.44)	-(11,98)	7.4.	-(17.22)
	Jordan Spinning and Heaving CO.Ltd.	ı	ı		-(20.26)	-(7.78)	-(23.20)	-(3.47)	-(10.40)	19.52	20.95	29.93	-(0.48)
cđ	Jordan Cement Factories	57 14 15	22.90	26.52	30.54		14.80	17.81	12,58	27.60	30.58	23.04	C 4
	Consolidated total of the    eight Companies	48.64	34,35	32.18	31.34	30.98	25.75	31.85	17.30	9.32	10.73	12,41	ı

Sources : Calculated from table 3.2 and table 3.4



and Agricultural Co. Ltd. has increased in 1976 as against 1975, a decreasing trend in 1977 and 1978 as against 1976, an inceasing trend from 1979 to 1982 as against 1978, a decreasing trend 1983 and 1984 as against 1982 and slightly increased in 1985 against 1985. In 1984 the gross profit margin to net sales ratio generated was 11.14 per cent, which was the least over the eleven years and the maximum gross profit to net sales ratio generated was 20.66 per cent in 1982. The gross profit to net sales for Jordan Pipes Manufacturing Co. Ltd. shows an increasing trend in 1979 and 1980 as against 1978, decreased to 15.20 per cent in 1981 as against 20.53 per cent in 1980, an increasing trend from to 1985 as against 1981. The highest gross profit to net slaes ratio generated by Jordan Pipes Manufacturing Co. Ltd. was 22.17 per cent in 1985 and the least was 15.20 per cent in 1981. The gross profit to net sales ratio for Arab Potash Co. shows a negative sing as (-)64.44 and (-)11.98 per cent in and 1984 respectively and shows a positive sign as 24.74 per cent in 1985. The gross profit to net sales ratio for Jordan Spinning and Weaving Co. Ltd. shows a negative sign from 1978 to 1982, it means that the cost of goods sold is more than the sales revenue, the ratio shows a positive sign from 1983 to 1985. The highest gross profit ratio generated by the company was in 1984 as 20.95 per cent and the lowest was (-)23.20 per cent in 1980. also shows that the gross profit to net sales ratio for Jordan Cement Factories Co. Ltd. has decreased in 1976 to 22.90 per cent against 45.28 per cent in 1975, an increasing trend in 1977 and 1978 as against 1976, a decreasing trend in 1979 and 1980 as

against 1978, a fluctuating trend from 1979 to 1983, an increasing trend in 1983 and 1984 as against 1982 and decreased in 1985 as against 1984. The highest gross profit ratio generated by the company was 45.28 per cent in 1975 and athe least was 12.58 per cent in 1982.

On an average, the highest gross profit to net sales ratio for the studied period was generated by the Arab Pharmaceutical Manufacturing Co. Ltd. as 44 04 per cent. It was the highest among all the companies included in this study. It followed by Jordan Phosphate Mines Co. Ltd. as 31.16 per cent, Jordan Cement Factories Co. Ltd. as 24.99 per cent, Jordan Petroleum Refinery Co. Ltd. as 23.68 per cent, Jordan Pipes Manufacturing Co. Ltd. as 19.00 per cent, the Industrial Commercial and Agricultural Co. Ltd. as 15.21 and the average of gross profit to net sales ratio for Jordan Spinning and Weaving Co. Ltd. and Arab Potash Co. Ltd. shows a negative percentage as (-)0.48 and (-)17.22 per cent respectively.

The consolidated total of the gross profit of the eight companies to net sales ratio, ranged from 9.55 per cent in 1983 to 48.64 per cent in 1975. It shows a decreasing trend from 1975 to 1980, decreased in 1981 as against 1980, a decreasing trend in 1982 and 1983 as against 1981 and shows an increasing trend in 1984 and 1985 as against 1983.

The ratio of profit to sales should also be studied along with gross profit to capital employed ratio. A company may show a higher gross profit to sales ratio and lower gross profit to capital employed ratio or vice-versa. If the amount of sales is

large, the gross profit to sales ratio will be lower but the gross profit to capital employed ratio will be higher if the amount of capital employed is small.

The volume of sales in the company is directly related with production. If production and utilisation of capacity in the manufacturing companies improves, the profit margin will increase due to large scale production. The effect of capacity utilisation on the amount of gross profit can be proved fom a competative analysis of the gross profit to sales raio (table 3.5) and gross profit to capital employed ratio (table 3.6).

Table 3.6 shows the ratio of gross profit to net capital employed in the selected industrial companies in Jordan for the period of eleven years convered by this study.

Table 3.6 shows the ratio of gross profit to net capital employed for Arab Pharmaceutical Manufacturing Co. Ltd. indicates a decreasing trend in 1976 and 1977 as against 1975. increasing trend in 1978, 1979 and 1980 as against 1977, decreased in 1981 as against 1980, an increasing trend in 1982 and 1983 as aginst 1981, decreased in 1984 as against 1983 and again increased in 1985 as against 1984. The Jordan Petroleum Refinery Co. Ltd. shows the gross profit to net capital employed ratio at 414.65 per cent in 1975, that is due to a large amount of gross profit and low amount of net capital employed in 1975, It decreased to 19.36 per cent in 1976, an increasing trend from to 1980 as against 1976, a fluctuating trend from 1980 to 1984 and an increasing trend in 1984 and 1985 as aagainst 1983. The Jordan Phosphate Mines Co. Ltd. shows adecreasing trend from 1976 to 1978 as against 1975, the ratio increased in 1979 and

Table : 3.6 Gross Profit to Net Capital Employed Katio

•

									******	(Percentade)			
Sr. Yo	Mass of the Coording	1975	9261	1977	62/4	9791	Years 1980	CD CT-	1961	1933	*** (D (r)	5561	0 0 1 2 2
***	Arab Pharmaceutical  Manufacturing Co.id,	74.48	31.40	23.82		33, 49	C. C	to to	<u>5</u>	82 64 64	6.3 6.3 6.3 6.3	27.13	7.7
e i	Jordan Petroleum Refinery Collto.	\$ . 4 . 5 . 5 . 5 . 5 . 5 . 5 . 5 . 5 . 5	19.30	20.57	61	36.69	40.14	5. 5. 5.	5.5	8	12,03	15.23	57.17
સં	(Jordan Phosphate   Hines Co. Ltd.	100.21	673 673	35.80		85 85 85	\$ . 2	57.75	19.56	e. Fi	27.15	000	6.00
******	Industrial Commercial Land Agricultural Co.Ltd	22,34	50	32.03	25.09	#3* }** #3* #4*	20.16	30.69	-6.60	24.06	m 	57	57
לימו	Jordan Pices Manufacturing Co.Ltd		1	1	20 -0 -1	29.61	703 6.4 1.5 1.0	20, 25	[10]	ش در- ش	24, 37	.ក្ ស្ត	5. 5. 5. 5. 5.
รต์	Arab Potas Co.Ltd.	i	1	1	ŧ	ŧ	i	í	1	-(7,55)	-(1.83)	2012	9,53
-:	Jordan Spinning and Weaving CO.Ltd.	'	t	ţ	-(9.65)	-(7.14)	-(20.94)	-(2.02)	-(2,71)	. CO	1. 1.	12.03	-(2,13)
ထံ	Jordan Cement Factories	66, 71	6.19	16.21	31.04	453.07	9.47	12.86	8.12	45°	19.09		58.60
	Consolidated total of the leight Companies	92.72	25.06	72.97	27.09	1. 1. 1.	28.03	27.30	5	4. 95 25	F시 #3* M1	12.38	1

Sources : Computed from table 3.4 and 4.4

1980 as against 1978, a declining trend in 1981 and 1982 against 1980 and an increasing trend from 1983 to 1985 as against The Industrial Commercial and Agricultural Co. Ltd. shows increasing trend in 1976 and 1977 as against 1975, a decreasing trend in 1978 and 1979 as aginst 1977, an increasing trend from 1980 to 1982 as against 1979 and again declining trend in the rest of the years under study. The gross profit to net capital ratio for Jordan Pipes Manufacturing Co. Ltd. shows increasing trend in 1979 and 1980 as aginst 1978, a declining trend from 1981 to 1983 as aginst 1980 and again an increasing trend in 1984 and 1985 as against 1983. The Arab Potash Co. Ltd. shows a negative sign in 1983 and 1984 as (-)3.55 per cent and (-)1.88 per cent respectively and shows a positive sign in 1985 as 7.03 per cent. The Jordan Spinning and Weaving Co. Ltd. shows a negative sign from 1978 to 1982 and a fluctuating trend in the remaining years under study. The Jordan Cement Factories Co. Ltd. shows a fluctuating trend from 1975 to 1977, an increasing trend from 1977 to 1979 as against 1976, a fluctuating trend from 1979 1983, an increasing trend in 1983 and 1984 as agaainst 1982 and decreased in 1985 as against 1984.

On an average, the highest gross profit to net capital employed ratio generated by the Jordan Cement Factories Co. Ltd. was 58.60 per cent followed by Jordan Petroleum Refinery Co. Ltd. with 57.17 per cent, Jordan Phosphate Mines Co. Ltd. as 38.59 per cent, Arab Pharmaceutical Manufacturing Co. Ltd. as 34.78 per cent, Industrial Commercial and Agricultural Co. Ltd. as 24.32 per cent, Jordan Pipes Manufacturing Co. Ltd. as 22.96 per cent,

Arab Potash Co. Ltd. as 0.53 per cent and the lowest by Jordan Spinning and Weaving Co. Ltd. as (-)2.12 per cent.

As regards to the consolidated total of the gross profit to net capital employed of the eight selected industrail companies in Jordan has decreased in 1976 to 25.06 per cent as compared to 92.78 per cent in 1975, an increasing tarend from 1977 to 1979 as against 1976, a decreasing trend from 1980 to 1983 as against 1979 and shows a fluctuating trend from 1982 to 1985. The ratio ranges from 9.96 per cent in 1983 to 92.78 per cent in 1975.

If we make a comaprative study between gross profit to sales ratio (table 3.5) and gross profit to net capital employed ratio (table 3.6); the gross profit to net sales ratio of Arab Pharmaceutical Manufacturing Co. Ltd. was lower than the ratio of gross profit to capital employed in 1975 because the capital employed was less than the amount of during these years. In the Jordan Petroleum Refinery Co. Ltd. the ratio of gross profit to capital employed was higher than the gross profit to net sales ratio in 1975, 1980, 1983. and In the Jordan Phoshpate Mines Co. Ltd. the gross profit to net sales ratio was higher than the gross profit to capital employed ratio in 1977, 1978, and 1979. The net sales during 1977, 1978 and 1979 were lower in amount as compared to the capital employed. In the Industrial Commercial and Agricultural Ltd. the gross profit to capital employed ratio is higher than the gross profit to net sales ratio in all the years under study. It means that the net sales were excess in amount as compared to the capital employed. In the Jordan

Manufacturing Co. Ltd. the gross profit to net sales were excess in amount as comdpared to the capital employed. In the Jordan Pipes Manufacturing Co. Ltd. the gross profit to net sales ratio was higher than the gross profit to net capital employed ratio in 1978 and 1983. In the Arab Potash Co. Ltd. the gross profit to net sales ratio is higher than the gross profit to capital employed ratio was higher than the gross profit to net sales ratio in 1978, 1979, 1981 and 1982. In the Jordan Cement Factories Co. Ltd. the gross profit to capital employed ratio was higher than the gross profit to capital employed ratio was higher than the gross profit to net sales ratio in 1975 1978 and 1979.

On an average, the gross profit to capital employed ratio was higher than the gross profit to sales ratio for Jordan Petroleum Refinery Co. Ltd., Jordan Phosphate Mine Co. Ltd., Industrial Commercial and Agricultural Co. Ltd., Jordan Pipes Manufacturing Co. Ltd., Arab Potash Co. Ltd. and Jordan Cement Factories Co. Ltd. It can be seen from table 3.5 and 3.6 that the gross profit to capital employed ratio was generally higher in comparaision to the gross profit to net sales ratio because of an adequate investment in capital.

It can be concluded that if the capital employed is large in amount, the ratio of gross profit to capital employed will be lower.

## Expense Ratio

Expense ratios are calculated by diving each expense such as manufacturing expenses, administrative and general expenses, selling and distribution expenses and other operating expenses

etc. by net sales. Man Mohan and Goyal write "These ratios, which represent a summation of changes in net sales and in the expenses items, are valuable in comparing similar business or operating data from year to year for the same business".

R.L. Gupta and Radhaswamy states "These ratios also indicate whether these expenses in relation to sales are increasing or decreasing or stationary; which in its turn reflect the profit earning capacity of the concern. With the increasing sales if the management can limit these operating expenses, it indicates the efficiency of the management in improving the operating efficiency of the company. The lower the ratio, the greater is 4 the profitability".

### Manufacturing Expenses

Manufacturing or factory expenses are part of the operating expenses and include salaries and wages, power and fuel, bonus, gratuity, provident fund, welfare expenses, stores, spares, packing materials, depreciation charges, excise duty, insurance repair and maintenance, licence fee, rent etc. These expenses affect the industrial relations as well as the competitive power and good will of the company. To reduce the cost of prouction and increase the profitability of the company, proper control over these expenses is very essential.

•

<sup>3.</sup> Man Mohan and Goyal S.N., Principles of Management Accounting, Agra, Sahitya Bhawan, 1980, P.407.

<sup>4.</sup> Gupta R.L. and Radhaswamy M., Financial statement Analysis, New Delhi, Sultan Chand and Sons, 1985, P.30.

The ratio of manufacturing or factory expenses to net sales in the selected industrial companies in Jordan for the period of eleven years covered by the study is shown in table 3.8.

The manufacturing expenses ratio is calculated by dividing the manufacturing expenses by net sales for a given period.

It is evident from table 3.8 that the manufacturing expenses to net sales ratio for Arab Pharmaceutical Manufacturing Co. Ltd. increased in 1976 as against 1975 shows a decreasing trend and 1978 as aginst 1976, an increasing trend in 1979 1980 as against 1978, decreased in 1981 as against 1980, increasing trend in 1982, 1983 and 1984 as against 1981 slightly decreased in 1985 as against 1984. The maximum percentage of manufacturing expenses is 9.22 percent in 1975 and the maximum 18.96 per cent in 1984. In the Jordan Petroleum Refinery Co. Ltd., the percentage of manufacturing expenses shows a fluctuating trend from 1975 to 1980, an increasing trend 1982 and 1983 as against 1980 and slightly a decreasing trend 1984 and 1985 as against 1983. The maximum percentage manufacturing expenses is 96.92 percent in 1983 and the minimum is 60.41 percent in 1979. In the Jordan Phosphate Mines Co. Ltd., the percentage of manufacturing expenses shows a decreasing trend 1976 and 1977 as against 1975, an increasing trend from 1978 to 1982 as against 1977, a decreasing trend in 1983 and 1984 as against 1982 and increased in 1985 as against 1984. The maximum percentage of manufacturing expenses is 74.62 per cent in

Table : 3.7

Manufacturing Expenses of the studied Companies from 1975 to 1985

(Amount in JBs)

. Ho. 1	Name of the Company	1975	1972	1477	1978	1979	Years 1980	1981	1982	1983	1984	1985
# ************************************	Arab Pharmaceutical Hanufacturing Co.Ltd.	173419	176451	114016	316841	512304	215,699	575036	739353	618161	153521	1348136
r.4	Jordan Petroleum Refinery Co.Ltd.	7099750	7009750 10470163 11451673 14754009 14492909 17435413	1451073	14755009	14492909	17435613	1	32718501	225126169	12124169 157825591	254527224
r;	Jordan Phosphate  Mines Co.Ltd.	15804974 11223693		7659272	9003125	9003125 13370915 24509542	24509542	33 <u>6</u> 9n083	41250721	38876892	42332161	47372161 46414354
***	Industrial Commercial and Agricultural Co.Ltd	1974810	2766688	3205090	3096562	2500	4132832	5522.225	6029247	4962939	2656745	5097256
11.3	ilordan Pipes Manufacturing  Co.Ltd	1	1	1	208975	277531	299893	407737	331526	325575	291030	297594
	Arab Potas Co.Ltg.		ı	ı	1	i	ı	ı	ı	11355119	17701349	19712525
۲.	Jordan Spinning and IMeaving CO.Ltd.		ı	1	723637	844386	1056644	969433	1019886	1423411	2383332	2172072
eó	lordan Cement Factories (Co.Ltd.	2944880	3379801	3971751	3488899	3488899 14529502 19875764	19875764	12700419	12390112	15211066	25671173	25671173 36222949

Sources : From the annual reports of the studied companies.

Table : 7.8 Manufacturing Expenses to net sales Ratio

Sr.No. Name of the Company  I. Arab Phareaceutical Manutacturing Co.Ltd.  Z. Jordan Petroleum Retinery Go.Ltd.  J. Jordan Phosphate Mines Co.Ltd.  4. Industrial Coamercial						,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				1			
	Auenan	2/61	1976	1477	1978	1979	Years 1985	50	1987	1933	ta	5700	h. 97
	ıcal .o.Ltd.	C	13,99	c.	17. 17.	15.27	# ************************************	10.64	12.00	13.05	18, 95	181	13,42
	<b>a</b>	27.10	74,29	69.74	70,69	50.41	65. 53	ł	66.92	96.92	76.40	96.07	76.48
	n)	74,02	54.26	मेर्- (ch	12,41	47.39	50,53	57.07	72.48	99.12	45. 64. 64.	10	19.02 19.01
and Agricultural Co.Ltd	ercial	86.10	94. 13.	86.71	86.55	86,31	60 61	8.21	79.33	30.44	88° 88	13.61	84.36
5. Jordan Pipes Manufacturing   Co.Ltd	nufacturing.				17.92	10.77	19.22	11.C3 4197 41 41 41 41 41 41 41 41 41 41 41 41 41	10.93	11.93	8.62	00 170	***** ***** *_ 1
6. iArab Potas Co.Ltd.	 E		,	1	'	'	,	ŧ		200.01	1.00	67.03	128, 39
7. Jordan Spinning and  Weaving CO.Ltd.	0				(C)	103.03	129.09	130,89	76.07	73.14	73,49	68.61	101,39
8. !Jordan Cement Factories :Co.Lto.	actories	54.71	77.09	73.75	62.52	82.88	85.19		29.63	77° 03	7 8	75.78	61.66
Consolidated total of the leight Companies	ital of the	67.86	63,37	56.55	56.3	59.48	61.16	58.11	58.83	34.46	83.08	93.5	ı

Sources : Computed from table 3.7 and 3.2

and a minimum of 40.44 per cent in 1977. In the Industrial Commercial and Agricultural Co. Ltd., the percentage manufacturing expenses shows a fluctuating trend from 1975 to 1977, a decreasing trend from 1979 to 1982 as against 1978 again a fluctuating trend from 1983 to 1985. The maximum percentage of manufacturing expenses consumed in 1984 is 88.85 per cent and the minimum is 79.33 per cent in 1982. In the Jordan Pipes Manufacturing Co. Ltd., the percentage of manufacturing expenses shows a decreasing trend in 1979 and 1980 as against and then shows a fluctuating trend in the rest of the years under study. The maximum percentage of manufacturing expenses is 17.92 per cent in 1978 and the minimum is 8.62 per cent in 1984. In the Arab Potash Co. Ltd., the percentage of manufacturing expenses shows a decreasing trend from 1983 to 1985 as against 1983. The maximum percentage was 200.00 percent in 1983 and the minimum was 67.03 per cent in 1985. In the Jordan Spinning Weaving Co. Ltd., the percentage of manufacturing expenses decreased in 1979 as against 1978, an increasing trend in 1980 and 1981 as against 1978, an increasing trend in 1980 and 1981 as against 1979, a decreasing trend in 1982 and 1983 as against 1981 and an increasing trend in 1984 and 1985 as against 1983. maximum percentage of manufacturing expenses was 130.89 percent in 1981 and the minimum was 73.14 per cent in 1983. In the Jordan Cement Factories Co. Ltd., the percentage of manufacturing increased in 1976 as against 1975, shows a decreasing in 1977 and 1978 as against 1976, an increasing trend and 1980 as against 1978, a decreasing trend in 1981 and 1979 1982 as against 1980 and an increasing trend from 1983 to 1985 as

against 1982.

On an average, the maximum manufacturing expenses is consumed by Arab Potash Co. Ltd., followed by Jordan Spinning and Weaving Co. Ltd., Industrial Commercial and Agricultural Co. Ltd., Jordan Petroleum Refinery Co. Ltd., Jordan Cement Factories Co. Ltd., Jordan Phosphate Mines Co. Ltd., Arab Pharmaceutical Manufacturing Co. Ltd. and the minimum was consumed by Jordan Pipes Manufacturing Co. Ltd.

Regarding the consolidated total of the manufacturing expenses of the eight companies, the percentage of manufacturing expenses shows a decreasing trend from 1976 to 1978 as against 1975, an increasing trend in 1979 and 1980 as against 1978, decreased in 1981 as against 1980, an increasing trend 1982 and 1983 as against 1981, decreased in 1984 as against 1983 and increased in 1985 as against 1984.

## Administration and General Expenses

Administration and general expenses include directors' fees, directors' remuneration, payment to auditors, managerial remuneration, cost audit fees, postage, stationery, research and development expenses, bank charges, rent and rates, office insurance, printing, telephone, postage, telegram and all other miscellanceous expenses which are not classified under any other specific heads of expenses. The administration and the general ratio is obtained by dividing the expenses total of administration and general expenses by net sales.

Administration and General Expenses = General Expenses
Ratio ----- X 100
Net Sales

Table 3.10 shows the ratio of administration and general expenses to net sales in the selected industrial companies in Jordan for the period of eleven years covered by this study.

Table 3.10 indicates the administration and general expenses to net sales ratio for Arab Pharmaceutical Manufacturing Co. Ltd. and shows a fluctuating trend from 1975 to 1978, an increasing trend from 1978 to 1983 as against 1977 and shows a decreasing trend in 1984 and 1985 as against 1983. The maximum percentage consumed by the company was 12.66 percent in 1983 and the minimum was 3.63 per cent in 1975. In the Jordan Petroleum Refinery Co. Ltd., the percentage of administration and the general expenses shows a fluctuating trend from 1975 to 1978, an increasing trend in 1978 and 1979 as against 1977, decreased in 1980 as against 1979, a decreasing trend from 1982 to 1984 as against 1980 and increased in 1985 as against 1984. slightly The maximum percentage consumed by the company was 25.96 per cent in 1979 and the minimum was 0.61 per cent in 1984. In the Jordan Phosphate Mines Co. Ltd., the percentage shows an increasing trend from 1975 to 1978, a decreasing trend in 1979 and 1980 as against 1978, increased in 1981 as against 1980 and shows a decreasing trend in the remaining period under study as against 1981. The maximum percentage consumed was 6.92 percent in 1981 and minimum was 3.43 per cent in 1985. In the Industrial Commercial and Agricultural Co. Ltd., the percentage of administration and general expenses shows an increasing trend in 1976 and 1977 as

Table : 3.9 Adamnstration and General Expenses of Studied Companies from 1975 to 1985

					(Amount in JDs)	10s)						
Sr. No.	.   Name of the Company	1975	1976	Years 1977	1978	1979	1980	148	1582	1983	2	58-
	Arab Pharmaceutical	70275	161653	0.1711	157160	179534	224203	516865	299090	774231	85 42 42 42 43 43 43 43 43 43 43 43 43 43 43 43 43	788794
ci	Jordan Petroleum Refinery Collid.	1279414	2765434	2595039	4029899	6294623	4422297	i	2911423	1791536	1555540	1920640
10	Jordan Phosphate Mines Co.Ltd.	748693	1104694	1127721	1455892	1614722	2347859	4085321	2379793	2307931	2731743	1262956
*** ***	Industrial Commercial and Agricultural Co.Ltd	125353	187971	242264	218270	237644	277487	315746	621716	378224	627368	780083
u".	Jordan Pipes Manufacturing	į	ı	t	184775	181331	232390	192129	227908	009722	206725	192111
	Arab Potash Co.Ltd	1	ı	ŧ	ı	ı	ı	ı	ř	10544574	0544574 12622475 14567766	14547754
	Jordan Spinning and iMeaving Co.Ltd.	•	ı	•	145884	225608	275056	117965	138024	167971	317651	248412
œ	Jordan Cement Factories	175480	319439	1019641	1381694	418097	317935	446061	547461	714007	847032	1618267
-	-											

Sources : From the annual reports of the different companies under study.

Table : 3.10 Administration and General Expenses to Net Sales Ratio

	i	,	f					1				1	1
1	Name of the Company	1975	1976	1977	8/61	1979	Years 1980	1861	787	1983	50 50 10	1985	Average Average
	Arab Pharmaceutical  Manufacturing Co.ttd.	3,63	80	5.30	F " ( 	10 10	wir ura	<i>ي.</i> در	7.7.	12.46	10.51	7,74	100° 100° 100°
2:	Jordan Petroleum  Refinery Co.Ltd.	7.57	, o .	m;	14. 14.	25, 34	16.63	1	5, 93	0.77	0.61	0.72	-0
tó	Jordan Phosphate  Mines Co.Ltd.	3.53	5.33	 	.e.	ස දි ආ	44 00 44	76.97	45.	₹ *	45 61	19 41 61	4. C1
~i	Industrial Commercial	5,45	5.67	-0 -0	,o	60 12 12	5. 5.05	£ 64	<u>co</u>	0	3.66	13.50	o. r.
ມຕົ	  Jordan Pipes Manufacturing -  Co.Ltd	,			15.85	7.03	7.92	นว้	, 6 , 5	9.26	5	5.6	8.0
•	:Arab Potas Co.Ltd.	,		1	f	1	1	•		185,73	84,23	45 45 45 45	106.5
7:	Jordan Spinning and  -		1		23.15	27.52	33,34	15.92	12.73	6,6	10.46	10.13	17.73
œ	Jordan Cement Factories	3.26	7.28	18.93	24.76	2.09	1.36	1.42	1.25	1.78	60.	3, 38	6,17
	Consolidated total of the leight Companies	, 9	9.25	10.83	13.55	10.94	7.28	5,12	9.	00 41	4. 20.	200 200 200 200 200 200 200 200 200 200	,

Sources : Computed from table 3.9 and 3.2

against 1975, a decreasing trend from 1978 to 1981 as against 1975, a decreasing trend from 1978 to 1981 as against increased in 1982 as against 1981, decreased in 1983 as against 1982 and shows an increasing trend in 1984 and 1985 as The maximum percentage of administration and general 1983. expenses was 13.56 per cent in 1985 and the minimum was 4.64 per cent in 1981. In the Jordan Pipes Manufacturing Co. Ltd., the percentage of administration and general expenses consumed by the company shows a fluctuating trend from 1978 to 1982, increasing trend in 1982 and 1983 as against 1981 and a . decreasing trend in 1984 and 1985 as against 1983. The maximum percentage consumed by the company was 15.85 per cent in 1978 and the minimum was 5.40 per cent in 1981. In the Arab Potash Co. Ltd. the percentage of administration and general expenses shows a decreasing trend from 1983 to 1985. The maximum percentage was 185.73 per cent in 1983 and the minimum was 49.54 per cent 1985. In the Jordan Spinning and Weaving Co. Ltd., the percentage of administration and general expenses shows an increasing trend in 1979 and 1980 as against 1978, a decreasing trend from 1981 to 1983 as against 1980, increased in 1984 and decreased in 1983 as against 1983. The maximum percentage was 33.34 per cent in 1980 and the minimum was 10.13 per cent in 1985. In the Jordan Cement Factories Co. Ltd., the percentage of administration and general expenses shows an increasing trend from 1975 to 1978 against 1975, an increasing trend in 1979 and 1980 as agaainst 1978, a fluctuating trend form 1980 to 1983 and an increasing trend in 1984 and 1985 as against 1983. The maximum percentage consumed by

the company was 24.76 per cent in 1978 and the minimum was 1.25 per cent in 1982.

On an average, the maximum administration and general expenses was consumed by the Arab Potash Co. Ltd. followed by Jordan Spinning and weaving Co. Ltd., Jordan Petroleum Refinery Co. Ltd. Jordan Pipes Manufacturing Co. Ltd., Arab Pharmaceutical Manufacturing Co. Ltd., Industrial Commercial and Agricultural Co. Ltd., Jordan Cement Factories Co. Ltd. and lastly by Jordan Phosphate Mines Co. Ltd.

Regarding the consolidated total of the administration and general expenses of the eight companies, the percentage varied from 4.60 per cent in 1982 to 13.55 per cent in 1978. It shows an increasing trend from 1975 to 1978, a decreasing trend from 1979 to 1982 as against 1978, slightly increased in 1983 as against 1982 and than a decreasing trend in 1984 and 1985 as against 1983.

#### Selling and Distribution Expenses

Selling and distribution expenses include all kinds which can facilitate and develop the sales expenses and distribution ofthe products. These expenses include transportation cost, expenses on advertisement, freight outward, commission on sales, . travelling expenses etc. These expenses are essential for selling goods and for creating new customers in the market. For a new company these expenses increase considerably because they have to establish themselves in the market.

The selling and distribution expenses have been calculated by dividing the total of selling and distribution expenses by net

sales.

Selling and Distribution

Selling and Distribution

bution Expenses

Expenses Ratio = ----- X 100

Net Sales

Table 3.12 shows the ratio of selling and distribution expenses to net sales in the selected industrial companies in Jordan for the period of eleven years covered by this study.

Table 3.12 shows that the selling and distribution expenses to not sales ratio for the Arab Pharmaceutical Manufacturing Co. Ltd. shows a fluctuating trend from 1975 to 1979, a decreasing trend in 1980 and 1981 as against 1979, an increasing trend in 1982 and 1983 as against 1981 and again a decreasing trend 1984 and 1985 as against 1983. The maximum percentage consumed 8.96 per cent in 1983 and the minimum was 6.12 per cent In the Jordan Petroleum Refinery Co. Ltd., the percentage of selling and distribution expenses increased in1976 as against 1975, a decreasing trend from 1977 to 1979 as against 1976, increasing trend in 1980 and 1982 as against 1979, a decreaing trend in 1983 and 1984 as against 1982 and slightly increased in 1985 as against 1984. The maximum percentage consumed by the company was 8.21 per cent in 1982 and athe minimum was 2.49 per in 1984. In the Jordan Phosphate Mines Co. the percentage ofselling and distribution expenses increasing trend in 1976 and 1977 as against 1975, a decreasing trend from 1978 to 1981 as against 1977 and an increasing trend 1982 to 1985 as against 1981. The maximum percentage consumed by the company was 31.35 per cent in 1977 and the

Table : 3.11 Salling and Distribution Expenses of the Studied Companies from 1975 to 1985

(Amount in JDs)

1	ŀ		· · · · · · · · · · · · · · · · · · ·	7 ear did the special term on the special term of the special term	to the got the sail she wat on got got got an ear of			1 1 1 1 1 1		1 1 to 7 as an 0 as as	! ! !	*****
2	Name of the Company	1975	1976	Years 1977	1978	1979	1950	Years 1981	1992	1983	\$60 I	1995
<b>-</b> :		123188	144826	196125	225941	240572	285028	285028 33313132	388339	547748	968809	757167
2.	Jordan Petroleus Refinery Co.Ltd.	- LELEGY	653271	162176	809748	923438	1126251	1	3521274	6273575	5570845	736864
12	Jordan Phosphate	3690451	5591787	5937635	6534401	7795888	7794888 10958581 10241730 10694774 11705197 16467545 15655018	10241730	£/245901	1705197	16467545	15655018
<del>-1</del> -	Industrial Commercial (and Agricultural Co.Ltd	ı	•	•	ı		1	1	t	1	236739	445703
ມສັ	Jordan Pipes Manufacturing   Co.Ltd	ı	ı	ï	ť	t	t	i	i	ı	1	1
-ô	Arab Potash	ı	ı	i	ı	ı	1	ŧ	1	1	ı	119373
7:	Jordan Spinning and Heaving Collto.	t	i	r	23623	50294	72980	67518	50096	152702	100 E	121638
ထံ	Jordan Cement Factories !	t	1	ı	ť	20256	15411	21622	40840	22363	113046	127324

Sources : From the annual reports of the different companies under study.

Table : 3.12

Selling and Distribution Expenses to Wet Sales Ratio

(Percentage)

9. 5.	Name of the Company	17. 17.	1976	1.61	67.50	6261	Years 1980	ço Ço	1982	1987	1984	13841 13841	Average
,	iArab Pharaaceutical Idanufacturing Co.Ltd.	6.37	7.33	6,69	7.37	7.17	4.37	F 4		8,56	7.55	141° 111° 111° 111°	spred # E **a
~;	Jordan Petroleum Refinery Co.Ltd.	4.35	ख्य- 6~ •	ត្តិ មា	3.87	60 	4.23	•	7.2	2.74	2,49	.73	4. 10.
۳.	Jordan Phosphate Mines Co.Ltd.	17.42	27.02	17. 17.	3,73	27, 45	22.39	17,35	er.	20.51	20.85	29.95	er in
**	Industrial Commercial and Agricultural Co.Ltd		1		ı	,	,	,	ı	6.13	3.27	7.74	นา เหว้
ษร์	lJordan Pines Manufacturing  Co.Ltd		'	1	1	1	ı	•	'	ŧ	i		ı
~i	Arab Potas Co.Ltd.	,	i ,		ı	1	ı	f	i i	l		~	0.4
	Jordan Spinning and		1		3.74	6.13	8.84	9.11	ю Ф	7.84	44.	4.96	6.77
œi	Jordan Cement Factories ::  Co.Ltd.		1	1		0.1	90.0	9.06	60.0	0.13	0.25	0.26	0,13
	Consolidated total of the    enght Companies	12.74	17.79	8. 2.	16.38	;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;	12.05	11.04	4.79	er er	15. 15.	່ ທີ່	

Sources : Computed from table 3.11 and 3.2

minimum was 17.35 per cent in 1981. The percentage of selling and distribution expenses to net sales are not known for the Industrial Commercial and Agricultural Co. Ltd., the Jordan Pipes Manufacturing Co. Ltd. and the Arab Potash Co. Ltd. due to unavailability of data regarding these companies. In the Jordan Spinning and Weaving Co. Ltd., the percentage of selling and distribution expenses shows an increasing trend from 1978 to 1981, a decreasing trend from 1978 to 1981, a decreasing trend from 1982 to 1984 as against 1981 and slightly increased in 1985 as against 1984. The maximum percentage consumed by the company was 9.11 per cent in 1981 and the minimum was 3.74 per cent In the Jordan Cement Factories Co. Ltd., the percentage of selling and distribution expenses slightly decreased in 1980 as against 1979, remaining stable in 1981 as against 1980 and shows an increasing trend in the remaining years under study as compared to 1981. The maximum percentage consumed by the company was 0.26 per cent in 1985 and the minimum was 0.06 per cent in 1980 and 1981.

On an average the maximum percentage of selling and distribution expenses was consumed by the Jordan Phosphate Mines co. Ltd., followed by Arab Pharmaceutical Manufacturing Co. Ltd., Jordan Spinning and Weaving Co. Ltd., Industrial Commercial and Agricultural Co. Ltd., Jordan Petroleum Refinery Co. Ltd., Arab Potash Co. Ltd. and lastly by Jordan Cement Factories Co. Ltd.

Regarding the consolidated total of the selling and distribution expenses of the eight companies, the percentage varied from 5.58 percent in 1983 to 18.65 per cent in 1977. The percentage shows an increasing trend in 1976 and 1977 as against

1975, a decreasing trend in 1978 and 1979 as against 1977, increased in 1980 as against 1979, a decreasing trend from 1981 to 1983 as against 1980, increased in 1984 as against 1983 and decreased in 1985 as against 1984.

## Operating Profit Before Taxes

Operating profit is the residual value which is left out after the deduction of operating expenses from the operating income. Operating expenses include the cost of goods sold, the manufacturing expenses, the general and administration expenses, the selling and distribution expenses, depreciations and other financial charges. We arrive at gross profit by deducting cost of goods sold from the amount of net sales. If other operating expenses are substracted from the gross profit figure, the result is operating profit before taxes. We arrive at the figure of net profit margin by adding non-operating income and deducting non-operating expenses to the operating profit.

Operating profit can increase either when the operating expenses remain the same and sales volume increase or when the operating expenses are brought down at same level of sales. Sales volume can be increased either by increasing the number of units sold or by increasing the price per unit. Thus, operating profit may be increased either by reducing all or some parts of the operating expenses or increasing the sales volume or both together.

Operating profit ratio is reliable and significant index of the operating efficeincy of the company. In case of a company whose major sources of income and expenses are non-operating, this ratio can not be used as a measure of profitability. Some of the selected industrial companies for this study have been paying taxes on the profits earned by them from year to year, whereas some others were exempted from taxes either because of losses or because of their profit being exempted from taxes.

Table 3.14 shows the operating profit ratio of the selected industrail companies in Jordan for a period of eleven years covered in the study.

The ratio of operating profit before taxes is calculated by dividing the operating proft before taxes by net sales for a given period. This can be expressed as follows:

Operating Profit
Operating Profit
Before Taxes
= ----- X 100
Before taxesf Ratio
Net Sales

Table 3.14 shows the operating profit before taxes to net sales ratio. In the Arab Pharmaceutical Manufacturing Co. Ltd. the operating profit before taxes shows a decreasing trend in 1976 and 1977 as against 1975, increased in 1978 as against 1977, a decreasing trend in 1979 and 1980 as against 1978, a fluctuating trend from 1981 to 1984 and a decreasing trend in 1984 and 1985 as against 1983. The maximum operating profit generated was 47.29 per cent in 1975 and the minimum was 18.21 per cent in 1985. In the Jordan Petroleum Refinery Co. Ltd., the percentage of operating profit before taxes shows a decreasing trend in 1976 and 1977 as against 1975, an increasing trend from

Table : 3.13 Oberating Profit before taxes for the studied companies from 1975 to 1985.

(Amount in JDs)

1. (Arab Pharmaceutical	.Ltd.	1975	1976	1477	1978	1979	1380	1961	1982	1983	1984	1981
	••	914552	676577	405047	1000387	1088299	988233	1404625	1491079	1483987	1690173	1853492
		1258951	1753879	1283337	1941825	7983469	3857085	4909003	11770/5	1269460	3276573	1920211
	• • .	1836681	2302282	34573339	3867347	5761746	5761746 12064817 10280466	10280466	3849139	7143804	71n3804 106 <del>4</del> 9976 14726966	14726966
	Co.Ltd :	194630	#F #F 17	291948	252574	273941	443524	961574	943780	828169	17943	179434 -(570697)
	ufacturing:	•	ı	,	21206	197178	231568	207421	202093	195054	287549	052340
7. Nordan Spinning at Meaving Co.Ltd.		1	ı	1	1	•	1	ı	1	-(1420312	-(1420312	-(1420512-(1420312-(7415260
-	ים ים ים	ı	ı	ï	- (546414)	-(339741)	-(539459)-(211243)-(548977)	-(2)1243)-	-(548977)	59250	174577	1273 1273 1274 1274 1274
8.   Jordan Cement Factories 	ctories	2251730	7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1919641	1381694	2974862	3119277	3359815	3301756	5344944	8819892	8819892 -(912617)

Sources : From the annual reports of the studied companies.

iable : 5.14 Goerating Profit Before Taxes to Net Sales-Aatio

6					***************************************				i.e	ייפו נפונימופי			
Sr. No.	Name of the Company	1975	1975	1977	1978	£479	7827 1780	1981	1982	1991	1984	1985	H* er 30 e
	Arab Fharmaceutical Hanufacturing Coild.	47.29	44. 6.4 0.0	50.89	12,66	32,45	23,83	25.82	24.2	24.28		12.21	28.62
ri	Jordan Petroleus Refinery Co.Ltd.	13.52	Ç. 4.	7.31	۲٦ م	12,43	64. 0.0	27	11,66	60 60 84 84 84 84 84 84 84 84 84 84 84 84 84	1.22	1.13	co co
เว๋	Jordan Phosphate   Hines Co.ttd.		Cr- *tr #7	20.9	18.22	20.29	24.87	41- 	0.70	12, 44	5. 4.	17.71	16.2
·	Industrial Commercial	es 4	10.13	7.3	7.54	7.3	51.5	म्पूर 	12,48	(4 (4 (4)	- - -	2,47 -(9,92)	F.
นาวี	Jordan Pipes Manufacturing:  Co.Ltd		ţ		čo 	7.65	er- co	C4 CU CU	-0 1	7.12	ษา co	16.21	*** ***
\o	Arab Potas Co.Ltd.	1	1	r	'	•	•	,		-250,17	-95.22 -	- (12:21) -	-(123,86)
7.	idordan Spinning and INGERVING CO.Ltd.		1	ī	47.13) -(	41,45	-(47.13) -(41.45) -(65.35) -(28.52)		-(32.19)	5,04	c1** *** U"	רוני מילי 1	-(22,0n)
ori	Jordan Cement Factories (Cs.Ltd.	42.02	15.61	18.93	24.76	14.91	13.37	10.71	7.59	13,33	20.07 -(1.90)	(1.90)	16.3
	Consolidated total of the length Companies	16.05	च <b>्र-</b> *	13,03	## ED	15,62	18,13	7.7 5.7	9.38	0.59	رخ مو۔ م	2.62 -	

Sources : Computed from table 3.13 and 3.2

1978 to 1981 as agaisnt 1977, a decreasing trend in 1982 and 1983 as against 1981 increased in 1984 as against 1983 and decreased in 1985 against 1984. The maximum percentage generated was 17.12 per cent in 1981 and the minimum was 0.54 per cent in 1983. the Jordan Phosphate Mines Co. Ltd., the percentage of operating profit before taxes shows an increasing trend in 1976 and 1977 as against 1975, decreased in 1978 as against 1977, an increasing trend in 1979 and 1980 as against 1978, a decreasing trend 1981 and 1982 as against 1980 and an increasing trend remaining period under study as against 1982. The maximum percentage generated by the company was 24.87 per cent in 1980 . and the minimum was 6.76 percent in 1982. In the Industrial Commercial and Agricultural Co. Ltd., the percentage of operating profit before taxes increased in 1976 as against 1975, decreasing trend from 1977 to 1979 as against 1976, shows increasing trend in 1980 and 1981 as against 1979, fluctuating trend from 1981 to 1984 and shows a negative percentage in 1985. The maximum percentage generated by the company was 14.14 per cent in 1981 and the minimum was (-)9.92 per cent in 1985. In the Jordan Pipes Manufacturing Co. Ltd., the percentage of operating profit before taxes shows an increasing trend in 1979 and 1980 as against 1978, decreased in 1981 as against 1980 and shows an increasing trend in the rest of the years under study as against 1981. The maximum percentage generated was 16.21 per cent and athe minimum was 1.81 per cent in 1978. In the Arab Potash Co. Ltd., the percentage of operating profit before taxes shows a negative sign from 1983 to 1985. the Jordan Spinning and Weaving Co. Ltd., the percentage

operating profit before taxes shows a negative sign from 1978 to 1982 and an increasing trend from 1983 to 1985 as against 1982. The maximum percentage generated was 5.83 per cent in 1985 and athe minimum was (-)65.39 per cent in 1980. In the Jordan Cement Factories Co. Ltd., the percentage of operating profit before taxes decreased in 1976 as against 1975, an increasing trend in 1977 and 1978 as against 1976, a decreasing trend from 1979 to 1982 and shows a negative sign in 1985. The maximum percentage generated by the company was 42.02 per cent in 1975 and the minimum was (-)1.90 per cent in 1985.

On an average, the maximum percentage of operating profit before taxes was generated by the Arab Pharmaceutical Manufacturing Co. Ltd., followed by Jordan Cement Factories Co. Ltd., Jordan Phosphate Mines Co. Ltd., Jordan Petroleum Refinery Co. Ltd., Jordan Pipes Manufacturing Co. Ltd. Industrial Commercial and Agricultural Co. Ltd., Jordan Spinning and weaving Co. Ltd. and lastly by Arab Potash Co. Ltd.

Regarding the consolidated total of the operating profit before taxes of the eight companies, shows a fluctuating trend from 1975 to 1979, an increasing trend in 1979 and 1980 as against 1978, a decreasing trend from 1981 to 1983 as against 1980 and an increasing trend in 1984 and 1985 as against 1983. The maximum percentage generated was 18.13 per cent in 1980 and the minimum was 0.59 per cent in 1983.

# Operating Profit After Taxes

Under this heading, the taxes have been deducted from the operating profit. Operating profit after taxes indicated the

ability of the management to leave margin after deduction of all kinds of expenses which are related to the business operation.

The operating profit after taxes ratio is calculated by dividing the profit before taxes by net sales for a given period.

Operating Profit
Operating Profit

After Taxes

----- X 100

After Taxes Ratio

Net Sales

Table 3.16 shows the operating profit after taxes to net sales ratio for the Arab Pharmaceutical Manufacturing Co. Ltd., it also shows a decreasing trend in 1976 and 1977 as 1975, an increasing trend in 1978 and 1979 as against 1977 showed a fluctuating trend in the remaining years under study. The maximum percentage generated in 1975 was 28.40 per cent the minimum was 14.09 per cent in 1984. In the Jordan Cement Factories Co. Ltd., the percentage of operating profit after taxes decreased in 1976 as against 1975, shows a negative sign from 1977 to 1980, an increasing trend in 1981 and 1982 against 1980 and a fluctuating trend from 1983 to 1985. maximum percentage generated by the company in 1982 was 7.31 per cent and the minimum was (-)2.74 per cent in 1978. In the Jordan Phosphate Mines Co. Ltd., the percentage of operating profit after taxes shows an increasing trend in 1976 and 1977 as against 1975, slightly decreased in 1978 as against 1977, an increasing trend in 1979 and 1980 as against 1978, a decreasing trend in 1981 and 1982 as against 1980 and an increasing trend from 1983 to 1985 as against 1982. The maximum percentage generated in 1980 14.45 per cent and the minimum as 3.69 per cent in 1982. was the Industrial Commercial and Agricultural Co. Ltd.,

Table : 3.15 Operating Profit Affer Taxes for the Studied Companies from 1975 to 1985,

(Amount in JBs)

100												
Sr. Mg.	., Name of the Company	1975	1975	Years 1977	£/41	1979	1986	co cr	: 982	120	1954	1535
	Arab Pharmaceutical Hanufacturing Co. Ltd.	549552	436577	586226	619393	758299	591233	873918	641034	953987	1154584	1565992
r4 	Jordan Petroleum Keinery Co.Ltd.	527986	1954	19544 -(105074)	-(5723%)	-(433777)	-(236015)	1753620	1129074	562916	2534120	1721295
+**	Jordan Phosphate     Hines Co.Ltd.	1002821	1403110	2011011	111598	747823	7008944	5561974	2104714	21665560	5399976	9024686
·**	Industrial Commercial and Agricultural Co.Ltd	107749	185351	151209	77/201	214275	275842	591368	518466	579309	122291	-1570,697)
ທຳ	Jordan Pipes Manufacturing   Co.Ltd	ı	1	•	21206	197178	231568	207421	202083	47 67 67 67	287849	555550
	Arab Potash	1	•	ľ	•	•	1	1	,	-(1420312	+16141)-	-(1420312-(1441914-(7415260
F-2	Jordan Spinning and Weaving Co.Ltd.	ı	1	1	-(296979)	-(339741)	-(539459)-(211243)-(548977)	-(211243)-	-13489771	29250	174577	17
	Jordan Cement Factories    Co.Ltd.	1918599	341311	27844	14556	1814355	2102542	2236323	2258411	3705008	6530636	6530636 -(976514)

Sources : From the annual reports of the studied companies

Table : 3.16 Operating Profit After Taxes to Net Sales Ratio

		****		***********							****	111111111111	1
Sr. W	Name of the Company	b7)	77.51	1	1973	6261	Years 1980	1991	1982	193.7	## CO CO	1932	01   1   1   1   1   1   1   1   1   1
	Arab Phermaceutical Hanufactaring Co.Ltd.	C 1	22.1	20.01	20.23	22.51	## 6.1	69 69 69	17 17	יים רים	60*51	65 67 97	on 00
r4 	Jordan Petroleus Refinery Co.Ltd.	91.	0.13	-0.62	5.7 4.7 4.7	7.5.64	-2,64 -(1,43)	-6	~0 ~0	हा <mark>वे</mark> सह	\$6.0	9,64	6
₽Å	Jordan Phosphate Mines Co.Ltd.	4.73	7.74	19.61	10.04	 r.	1377 -47 -47	14 44 51	, d	G- - - -	70 10	ci	1 / -0 en
-# 	Industrial Commercial iand Agricultural Co.Ltd	4,	າດ ທ້າ	4.04	4.06	u-1		60°.	50	9.39		26.6-	***
	Jordan Pipes hanufacturing   Co.td				86	7.05	7.39	5.83	-0	נים	in m	10,21	7.34
-å	Arab Potash Co.Ltd.		1	í			,		1	-250.17	. 72.96-	-(25.21)	-(177,85)
	Jordan Spinning and Imeaving CE.Ltd.		t .		-(47.13)	-(41,45) -	- (65,39) -	-(28.52)	-(32,19)	0.0	171	נים נים	-(25,30)
	Jordan Cement Factories :Co.Ltd.	49.55	7,78	8 1,1	23	60.6	9.01	7.13	5. 1.	9.24	## ## ##	-(2,04)	9.65
ing also peng m	Consolidated total of the lenght Cospanies	6. 6.	5.78	6.55	5.4 • 45 • 45	6.39	ei E	8.09	5.52 -		0.36	9.93	1
	-												

Sources : Computed from table 3.15 and 3.2 Note : Operating Profit Before and After Taxes are the same for Jorden Pioes Manufacturing Co., Arab Potash Co. and Jordan Spinning and Meaving Co. because those Companies are exempted from taxes. The Arab Fotash Co. Ltd. is exempted from taxes upto 1984.

.

(Percentage)

percentage of operating profit shows a fluctuating trend from 1975 to 1978, an increasing trend in 1978 and 1979 as 1977, a fluctuating trend from 1980 to 1984 and shows a negataive sign in 1985. The maximum percentage generated in 1983 was 9.39 per cent and the minimum was (-)9.92 per cent in 1985. In Jordan Pipes Manufacturing Co. Ltd., the percentage of operating profit after taxes shows an increasing trend from 1978 to decreased in 1981 as against 1980 and shows an increasing from 1982 to 1985 as against 1981. The maximum percentage generated in 1985 was 16.21 per cent and the minimum was 1.81 per in 1978. In the Arab Potash Co. Ltd., the percentage operating profit after taxes shows a negative sign from 1983 In Jordan Spinning and Weaving Co. Ltd., the percentage of operating profit after taxes shows a negative sign from 1978 to and shows an increasing trend from 1983 to 1985 as against 1982 1982. The maximum percentage generated was 5.85 per cent in 1985 and the minimum was (-)65.39 per cent in 1980. In the Jordan Cement Factories Co. Ltd., the percentage of operatiang profit after taxes shows a flutuating trend from 1975 to 1980, increased in 1981 as against 1980, decreased in 1982 as against 1981, increasing trend in 1983 and 1984 as against 1982 and shows a negative sign in 1985. The maximum percentage generated in 1975 was 35.64 per cent and the minimum was (-)2.04 per cent in 1985.

On an average, the maximum percentage of operating profit after taxes was generated by the Arab Pharmaceutical Manufacturing Co. Ltd., followed by Jordan Cement Factories Co. Ltd., Jordan Phosphate Mines Co. Ltd., Jordan Pipes Manufacturing

Co. Ltd., Industrial Commercial and Agricultural Co. Ltd., Jordan Petroleum Refinery Co. Ltd., Jordan Spinning and Weaving Co. Ltd. and lastly by Arab Potash Co. Ltd.

Regarding consolidated total of the operating profit after taxes of the eight companies, the percentage varied from 9.48 per cent in 1975 to (-)1.71 per cent in 1983. The percentage shows a fluctuating trend from 1975 to 1979, a decreasing trend from 1981 to 1983 as against 1980 and shows an increasing trend in 1984 and 1985 as against 1983.

### Net Profit Margin

Net profit margin or net profit to sales ratio establishes the relationship between net profit and sales. Net profit may be calculated in two ways: firstly the calculating of net profit before taxes and secondly net profit after taxes. Net profit before taxes is that part of the earnings which remains with the company after deducting all kinds of expenses except taxes, while net profit after taxes is the portion of earnings which remains with the company after deducting all kinds of expenses including taxes. Net profit margin shows the efficiency of management in manufacturing, administering, selling and marketing the products of the company. It measures the overall ability of the company to turn each dinar of sales into net profit. If the net profit margin is not sufficient, the company will fail to achieve a satisfactory return on shareholders' equity.

A high net profit margin indicates an advantageious selling price policy, declining cost of production or rising demand for the products. A lower profit margin has the opposite implication.

Certain items of income which are to derived from the business operation have also been included under the heading of non-operating income. If we deduct non-operating expenses non-operating income, the result is non-operating surplus. items effect the overall profitability of the company. Net profit margin is the result of deduction of operating and non-operating expenses from operating and non-operating incomes. A high net profit margin would ensure reasonable return to the shareholder and express the efficiency of the management in performing their assigned duties toward society. A low profit margin indicates the weakness of the company, inefficiency of the management, unsatisfactory return to shareholders and also indicates the capacity of the company to withstand the adverse conditions which the company may come across such as declining prices, cost and decreasing salels. The net profit ratio is calculated by dividing the net profit by net sales for a given period. It can be expressed as follows:

Table 3.18 shows the net profit to net sales ratio for the Arab Pharmaceutical Manufacturing Co. Ltd., it also shows a fluctuating trend from 1975 to 1978, an increasing trend in 1978 and 1979 as against 1977, decreased in 1980 as against 1979, an increasing trend in 1981 and 1982 as against 1980, a decreasing trend in 1983 and 1984 as against 1982 and increased in 1985 as against 1984. The maximum percentage of net profit generated in 1975 was 29.54 per cent and minimum was 14.50 per cent in 1984.

Table : 3.17 Net Profit of the different Companies Studied from 1975 to 1935

(Amount in JDs)

Sr.No.	.i Name of the Company i	1975	1976	Years (977	8791	623	0861	Years	C. C	1 00	4001	586
	Arab Pharacceutical (Manufacturing Co.Ltd.	371323		70	716779	25.049	622218	868568	1005808	649,096	1167854	1571784
<b>~</b>		1762831	1795685	1303338	1975753	5102333	5762887	817/19	6005924	18000271	3334695	3770113
,	ijordan Phosphate iMines Co.ttd.	1154423	1653544	2089072	2215858	3386248	7296942	117895	3435862	5072311	7546833 10846760	10345760
w#.	Industrial Commercial	154943	120201	70016	100	286011	335150	993509	618466	579309	34555	145756 - (498351)
u3	  Jordan Pipes Manufacturing   Co.Ltd	•	,	ſ	-(32112)	167299	232712	120564	218489	209988	301653	50 50 50 50 50 50 50 50 50 50 50 50 50 5
. <b>.</b> .	Arab Potash :Co.Ltd	r	•	•	1	•	t	ŧ	1	-(1384020-)1410534-(6525293)	-11410534	-(6525293)
<b>.</b>	Jordan Spinning and Heaving Colltd.	ı	ı	ş	-(268416)	-(587930)	-(1236961-(193025)-(470622)	-(193025)	-(470622)	176389	98174	403095
<b>5</b>	Jordan Cement Factories	1445000	524699	642359	1426271	2111410	2162926	2227012	2304973	4553339	6343603	6343603 - (687013)

Sources : From the annual reports of the studied companies

Note : Wet profit after tax has been taken for consideration.

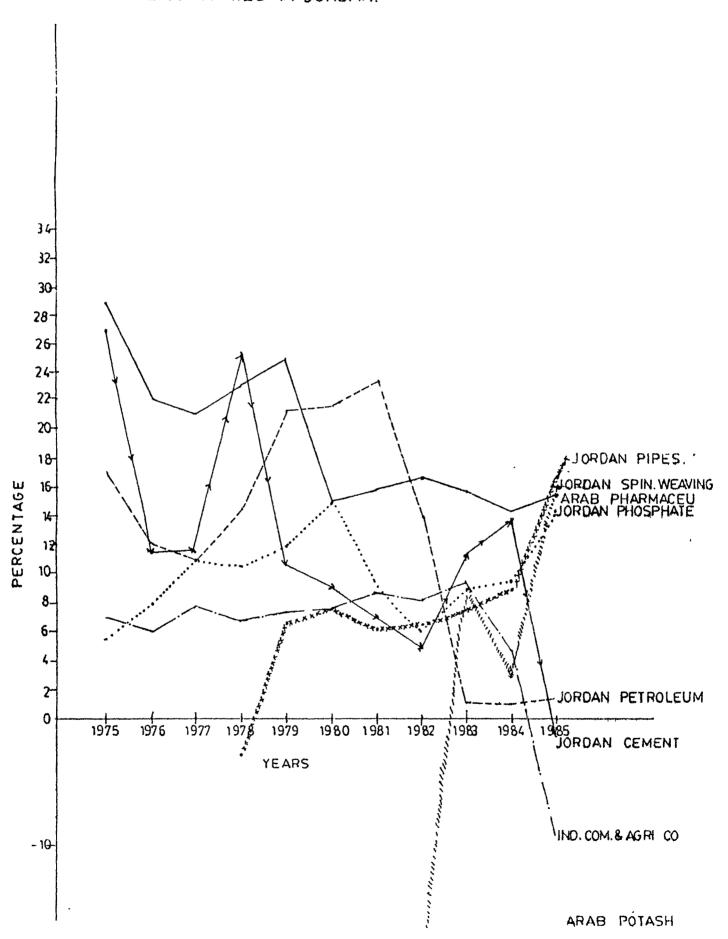
Table : 3.18

Het Profit to Net Sales Ratio

(Percentage)

Sr. No.	Name of the Company	57.5	9/41	1677	1978	1979	Year's 1930	10	7861	1987	1661	1100	A G G
-:	Arab Pharasceutical Manufacturing Co.Ltd.	29.54	22.19	21.03	1 17	20 12 12 12	1	15.96	16.39	15.71		**************************************	
6.3	Jordan Petroleum Refinery Co.Ltd.	17.04	2-1 n.3	10,98	14,35	12.27	21.67	23.05	га г <u>і</u>	1.2	1.24	E-1	2.2
.;	Vordan Phosobate	נים מים	8.01	15.92	10.43	11.92	15.04	9.29	6.03	88	6- 53	4. 5.	01
~J*	Industrial Commercial and Agricultural Co.Ltd	7.19	\$	6.7	6.83	7.62	7.04	8.94	F0 60	0		-(3.67)	6.91
เหรื	Jordan Pipes Kanufacturing:-  Co.Ltd	,	1	ı	-(2,75)	-0 44-	7.93	2.5	-0 -0	7.69	60 60	17.	F
•	Arab Potash Co.Ltd.	1	1	1	1	•	,	1		-(243,78)	-(94.12)	-(22,19)	-(120,03)
r.,	Jordan Spinning and	1	,	•	(42,59) -	(11.73) -	-(42.59) -(71.73) -(149.95)-(26.06)		-(43,41)	9.06	1.5 2.7 1.5	-0	16.44 -(38.12)
œ	Jordan Cement Factories : .Co.ltd.	26.84	11.96	11.92	64 64 64	10.58	9.27	7.1	17 CH	11.35	***	14, 43 - (1, 43)	12.07
	Consolidated total of the langue Companies	E	10.32	11.52	12	13.06	13.7	ET- T'es d und und	60	0°.		27	ŧ

Sources : Computed from table 3.17 and 3.2 Note : Non - Operating surplus/deficit included while calculating Net Profit to Net Sales Ratio



In the Jordan Petroleum Refinery Co. Ltd., the percentage of net profit shows a decreasing trend in 1976 and 1977 as against 1975, an increasing trend from 1978 to 1981 as against 1977, decreased in 1982 as against 1981. Net profit Margin shows adeclining trend from 1983 to 1985 due to an increasing trend in the cost of goods sold and manufacturing expenses. The highest net profit margin generated by the company in 1981 was 23.63 per cent and the lowest was 1.20 per cent in 1983. In the Jordan Phosphate Mines Co. Ltd., the net profit margin shows an increasing trend in 1976 and 1977 as against 1975, slightly decreased in 1978 as against 1977, increased in 1979 and 1980 as against 1978, a declining trend in 1981 and 1982 as compared to 1980 due to an increasing trend in cost of goods sold and manufacturing cost and the net profit shows an increasing trend from 1983 to 1985 as against 1982. In the Industrial Commercial and Agricultural Co. Ltd., the net profit margin shows a fluctuating trend from 1975 to 1979, an increasing trend from 1979 to 1981 as against 1978, a flucutating trend from 1981 to 1984 and a negative sign in 1985. profit margin shows a declining trend in 1984 and 1985 due to increase in cost of goods sold. manufacturing cost and administration cost. In the Jordan Pipes Manufacturing Co. Ltd., the net profit shows a negative sign in 1978 because of increased cost, an increasing trend in 1979 and 1980, declined in 1981 as against 1980 and shows an increasing trend in remaining years under study. The highest net profit margin generated by the company in 1985 was 17.00 per cent and the lowest was (-)2.75 per cent in 1978. In the Arab Potash Co. Ltd., the net profit margin shows a negative sign from 1983 to 1985 due

to increase in the cost of goods sold, manufacturing cost, administration and general cost and selling and distribution cost. In the Jordan Spinning and Weaving Co. Ltd., the net profit margin shows a negative sing from 1978 to 1982 because of the increase in the manufaturing and administration costs and the net profit margin shows a fluctuating trend in the rest of the years under study. In the Jordan Cement Factories Co. Ltd., the net profit margin shows a decreasing trend in 1976 and 1977 as against 1975, increased in 1978 as against 1977, a declining trend from 1979 to 1982 as against 1978, increased in 1983 and 1984 as against 1982 and shows a negative sign in 1985 due to increase in the manufacturing cost. The highest net profit to net sales ratio generated by the company in 1975 was 26.84 per cent and the lowest was (-)1.43 per cent in 1985.

On an average, the highest net profit to net sales ratio was generated by the Arab Pharmaceutical Manufacturing Co. Ltd. followed by Jordan Petroleum Refinery Co. Ltd., Jordan Cement Factories Co. Ltd., Jordan Phosphate Mines Co. Ltd., Jordan Cement Factories Co. Ltd., Jordan Phosphate Mines Co. Ltd., Jordan Pipes Manufacturing Co. Ltd., Industrial Commercial and Agricultural Co. Ltd., Jordan Spinning and Weaving Co. Ltd. and lastly by the Arab Potash Co. Ltd.

The consolidated total of net profit margin of the eight companies ranged from 13.70 per cent in 1980 to 0.14 per cent in 1983. It decreased in 1976 as against 1975 and shows an increasing trend from 1977 to 1980 as against 1976, a decreasing trend from 1981 to 1983 as against 1980 and again an increases in 1984 and 1985 as against 1983.

## B) ASSETS TURNOVER

The earning of profit follows a two fold sequence and the investment turnover constitutes an essential part of this two tier structure. Therefore, for examining the overall profitability of the company, it is essential to study and analyse the investment turnover alongwith profit margin. This part of the study attempt to analyse the changes in investment turnover and to examine the productivity of the investment made in the assets of the selected large scale industries in Jordan.

Funds of long term and short term sources of finance are obtained from different sources with the sole aim of investment in the assets which are essential to the company.

The word 'investment' has different meanings from the point of view of accountants and economists. However, it may be defined in three ways :

- i) It may indicate the investment in assets where it is determined by methods of capital budgeting.
- ii) It may denote the investment in share capital of the company. This kind of investment depends upon many factors such as degree of risk etc.
- iii) N.K. Kulshrestha defines investment to indicate the capital employed in the company "The term "investment" is synonymous with the concept of "capital employed" The term "capital employed" is used to denote the total investment in a conern".

ŝ

<sup>5.</sup> Kulshrestha N.K., Theory and Practice of Management Accounting, Aligarh, Navman Prakashan, 1985-86, P.328.

For the purposes of this study the word 'investment' refers to total assets or total equities in the company. Some of these techniques used to determine whether the investment are being used efficiently in the selected industrial companies in Jordan?

Harry and Guthman mention "the assets are all the properties  $^6$  that belong to the business". According to Monga "assets are the economic resources owned by the business which can be conveniently expressed in monetary terms".

The term "Turnover" indicates the efficiency in the use of Turnover assets ratios are calculated by comparing the net sales of the company to its different components of assets (i.e. fixed assets, total assets, current assets etc.). ratios show the number of times the capital has been rotated in the process of doing business. The higher the ratio, the better is the position of the company. Hingorani and Ramanathan write "too high a ratio will indicate overtrading resulting from This is dangerous as it may lead to a paucity of resources. complete break-down. Therefore, the turnover ratio should be standard" Stephen and Archer treated state manufacturing concerns in general the investment turnover will average one to two times and for public utilities it will be

<sup>6.</sup> Harry G. Guthman, Analysis of financial Statement, Prentice Hall of India Private Limited, New Delhi, 1976, P.22.

<sup>7.</sup> Monga J.R., Topics in Financial Accounting, New Delhi, National Publishing House, 1981, P.51.

<sup>8.</sup> Hingorani N.L. and Ramanathan A.B., Management Accounting, New Delhi, Sultan Chand and Sons, 1982, P.132.

0.25 to 0.33 times a year"

Kulshrestha write "Investment decisions for creating fixed and current assets have a very great and for reaching impact on the operational efficiency as well as on the altimate profitability of a business enterprise. Not only this, decisions pertaining to management of assets are even more vital than decisions pertaining to investment in assets" 10. Lallnigam state "In fact, one of the central tasks of financial management is to control and accelerate the funds' activity and generate higher sales per unit of assets".

The investment turnover analysis indicates which part of assets is efficiently turned over and which part is not, in case there are assets not turning over efficiently, it means there is excess in capital blocking the company.

The techniques of assets turnover are used by the company to test the efficiency of the use of assets. The over and under investment in the assets can be disclosed by measuring the assets being used by the company. Assets turnover is used for the measurement of the efficiency of the capital invested in the company. The larger the assets turnover, the more will be the profit on each dinar invested in the assets of the company.

<sup>9.</sup> Stephen, Archer and Charles A. Ambrosio, Business Finance Theory and Management, New York, Macmillan, 1972, P.435.

<sup>10.</sup> Kulshrestha R.S., Profitability in India's Steel Industry, during Decade 1960-70. A thesis submitted to the Unversity of Rajasthan for Ph.D. Degree 1973, P.100.

Lallnigam B., Financial Analysis Techniques for Banking Decisins, New Delhi, Somalya Publication Pvt. Ltd. 1979, P.99.

#### Total Assets Turnover

Total assets mean all the assets side of the balance sheet which include fixed assets, current assets, investment, intangible assets, fictitious assets etc.

The total assets turnover ratio is obtained by dividing the net sales by total assets emplyoyed in the company for a given period.

Total Assets Net Sales

Turnover Ratio Total Assets.

Table 3.20 shows that the total assets turnover ratio in the Arab Pharmaceutical Manufacturing Co. Ltd. varied from 0.38 in 1983 to 0.82 in 1975. It shows a fluctuating trend from 1975 1978, a decreasing trend in 1978 and 1979 as against 1977, increase in 1980 as against 1979, a decreasing trend in 1982 and 1983 as against 1981 and an increasing trend in 1984 and 1985 as against 1983. In the Jordan Petroleum Refinery Co. Ltd., the assets turnover ratio shows a decreasing trend from 1975 to 1981, an increasing trend from 1982 to 1984 as against 1981 and decreased in 985 as against 1984. It varied from 0.25 in 1980 and 1981 to 1.84 in 1984. In the Jordan Phosphate Mines Co. Ltd., the assets turnover ratio shows a decreasing trend from 1975 to 1978, an increase in 1979 and 1980 as against 1978 a decreasing trend from 1981 to 1983 as against 1980, again an increase in 1984 as against 1983 and decreased in 1985 as compared to 1984. It varied from 0.43 in 1978 to 0.82 in 1984. In the Industrial Commercial and Agricultural Co. Ltd., the assets turnover ratio shows a fluctuating trend from 1975 to 1985 and it ranged from 0.63 in 1983 and 1985 to 1.15 in 1978. In the Jordan Pipes Manufacturing

Table : 3.19 Total Assest of the Studied Companies from 1975 to 1985

(Amount in JDs)

S	Name of the Company	1975	1976	Tears	1978	6261	ù861	1981	1982	1983	00 00 00	1986
! ! " ! " ! "	Arab Pharmaceutical Manufacturing Co.Ltd.	2337912	4151776	4882745	5326410	6213626	6413617	3747950	3747950 15732784 15924663 19732585	15924563	19737585	22439226
e4 	Jordan Petroleum Refiner, Co.Ltd.	25515951	105+1914	57080393	77205704	38094450	1.12+08	1.15+98	1.26+08	50 + 11 11	5	: 6E+08
M	Jordan Phosphate	26736792	34287798	40682919	48255514	58454814 73972257		39852074	39852074 86392162 89528717 %6192852	89528717	46192852	1.15+08
<b>42</b>	Industrial Commercial :	2144093	100 C+ C+ C+	2650241	3099708	4552094	5746146	9022520	\$30175b	6675896	4.656	4694923
u	Jordan Pipes   Manufacturing      Co.Ltd	1503723	2336641	0617072	3405567	3547630	3508467	3786502	4. 2. 2. 5.	6	3546961	4951425
~6 	Arab Potash Co.Ltd	17000	4039004	3203101	241145	56420909	1.02+69	1.35+08	40	1,35498	1.45+09	1,45+08
×	Jordan Spinning and Weaving Co.Ltd.	1802553	2781395	3037581	2834275	2840470	2944948	3111566	1973165	1955592	10 44 10 10 10 10	9111111
ei 	Jordan Cement Factories    Co.Ltd.	7730724	20403193	24336063	28052357	37285141 44882703 53579911 78771096 94933201	14882703	53579911	78771096	94933201	1.1£+08	5. 1. 1.

Sources : From the annual reports of the studied companies

Table : 7.20

Total Assets Turnover Ratio

									••••	(Percentage)			
3r. 40.	Name of the Company	1173 Co-	92.61	1977	1378	1979	Years 1980	1981	1982	13	1994	1935	Average
-:	Arab Pharmaceutical Manufacturing Co.Ltd.	0.32	(4.47	0.59	0.37	0.53	6.64	0.62	0.39	9.33	*** ()	0.0	120
2.	Jordan Petroleum  Refinery Co.ttd.	0.4	9.3	0.28	0.27	0.27	0.25	0.25	0,41	1.7.	4.		0.7
tổ	Jordan Phosonate	0.79	¢*0	0.46	0.43	0.48	0.66	0.65	\$. 50	130 °¢	28.0	0.7	0.52
-1-	Industrial Cosmercial and Agricultural Co.Ltd	1.05	1.12	1.02	1. 51	0.82	0.95	0.75	97.0	0.63	9.75	3.63	0.86
เกร	Jordan Pipes Manufacturing   Co.Ltd	1	1	1	0.72	0.72	0.91	0.93	0.73	7,62	======================================	9.34	10
-0	iArab Potasn Co.Lid.	1	1	t	ı	1	ŧ		1	0.03	0.1	9.2	9,11
7.	Jordan Spinning and		ı	•	0.22	0.28	0.28	0.23	0.21	0.39	6.56	6.47	0.33
œ.	Jordan Dement Factories	69*8	5.21	0.22	0.10	0.53	0.53	C.	ម្ចា ប្រ	9.42	** ()	0.22	0.41
	Consolidated total of the    eight Companies	0.64	**************************************	0.74	0,33	0.41	0.45	o. 43	0.2	0.7	0.81	9,56	1
	•												

Sources : Computed from table 3,19 and 3.2

Ltd., the assets turnover ratio shows an increasing trend Co. from 1975 to 1981, a decreasing trend in 1982 and 1983 as against 1981, again an increase in 1984 as against 1983 and a decrease in against 1984. It ranged from 0.32 in 1978 to 0.93 1985 as In the Arab Potash Co. Ltd., the assets turnover ratio shows an increasing trend from 1983 to 1985. It ranged from 0.03 in 1983 to 0.20 in 1985. In the Jordan Spinning and Weaving Co. Ltd., the assets turnover ratio increased in 1979 and 1980 as against 1978, a decreasing trend from 1980 ato 1982 as against 1979 and a fluctuating trend from 1983 to 1985. It varied from 0.21 in 1982 to 0.56 in 1984. In Jordan Cement Factories Co. Ltd., the assets turnover ratio shows a fluctuating trend from 1975 to 1979, an increasing trend in 1979, 1980 and 1981 as against 1978 and a decreasing trend from 1982 to 1985 as against 1981. It varied from 0.21 in 1976 to 0.69 in 1975.

On an average, the highest assets turnover was generated by the Industrial Commercial and Agricultural Co. Ltd., followed by Jordan Pipes Manufacturing Co. Ltd., Jordan Petroleum Refinery Co. Ltd., Jordan Phosphate Mines Co. Ltd., Arab Pharmaceutical Manufacturing Co. Ltd., Jordan Spinning and Weaving Co. Ltd., Jordan Cement Factories Co. Ltd., and the lowest was by the Arab Potash Co. Ltd.

The consolidated total of the total assets turnover of the eight companies ranged from 0.33 in 1978 to 0.81 in 1984. It shows a fluctuating trend from 1975 to 1979, an increasing trend from 1979 to 1984 as against 1978 and decreased in 1985 against 1984.

From the above analysis of assets turnover, one may conclude that the total assets turnover in all the eight companies is not satisfactory to the standard ratio 1.50 to 2.00 times. It seems the managements of these companies did not operate the companies efficiently and did not share their responsibilities towards the shareholders and the society as a whole.

# Operating Assets Turnover

Operating assets include all kinds of assets except intangible assets, fictitious assets, work in progress, fixed assets in transit etc. The sales of the company are directly affected by the operating assets. So, operating assets turnover ratio has been calculated to test the efficiency of the management in expliciting and utilising the operating assets of the companies under study. The ratio is calculated by dividing the total net sales by the operating assets available in the company over a period of time:

Operating Assets

Ret Sales

Trunover Ratio

Operating Assets

Table 3.22 reveals the operating assets turnover ratio in the Arab Pharmaceutical Manufacturing Co. Ltd. shows a fluctuating trend from 1975 to 1987, a decreasing trend in 1978 and 1979 as against 1977, an increasing trend in 1980 and 1981 as against 1979 and again shows a fluctuating trend in the remaining years under study. It ranged from 0.38 in 1982 to 0.84 in 1976. In the Jordan Petroleum Refinery Co. Ltd., the operating assets turnover decreased in 1976 as against 1975, increased in 1977 and 1978 as against 1976, again shows a decreasing trend from 1979 to

Table : 3.21 Operating Assest of the studied Companies from 1975 to 1985

-
ມາ
_
=
뭍
B
理
-

1		*************										1000000
2	, Mase of the Company	5/61	1976	Years 1977	1978	1979	1980	1491	1932	80 U-	;- co	100 Ch
	Arab Pharmaceutical Hanufacturing Co.Ltd.	2337597	4064966	2792974	5239641	5102456	5157195		13256966	9808423 19646021	1	27232027
ri 	Jordan Petroleum iRefinery Collid.	14784207	50837109	30399966	54113027	39962376	50334423	94992757	1.25+03	1.3E+08	######################################	ro + Lu Lu
}^	Jordan Phosphate   Mines Co.Ltd.	25017245	21174226	36607228	47728576	52480372	52480372 68961628 88913052		85761750 86433781		89366393	37274139
-4 <sup>‡</sup>	Industrial Commercial and Agricultural Co.Ltd	2144093	2937205	3650241	3099708	4552096	5740146	9022520	522236	9535498	9465572	1007695
ມວ່	Jordan Pipes Manufacturing: :Co.Ltd	1231495	2152085	1170652	3122665	1118331	3232877	3464667	4187196	10 1-1	1969791	571504
-n	Arab Potasn	2005807	2971112	4489255	11564275	31921020	31921020 48230045 34853776	34853776	1.2E+08	1.32-98	1.25+08	1.35+03
	Jordan Spinning and	1766-007	2231506	2796313	2543907	2578329	2601956	2581958	4712716	4730668	5174095	5916061
có	Jordan Cement Factories	6298406	17805821	21935899	25642319	37017788	43016220 52133744 48598446 49612641	52133744 (	48598446	49612641	1.15408	сч ф ф

Sources : From the annual reports of the studied companies

Note : Operating assest and total assests are the same in case of Jordan Pipes Manufacturing for all years and in some years in some other companies.

labie : J.L. Operating Assets Turnover Ratio

										(11965)			
25.	. Name of the Company	27	1976	1477	1978	5261	Years 1980	-1	1982	1203	 	1.0 0.0 1.0 1.0	A. e.
	Arab Phareaceutical Manufacturing Co.Ltd.	0.82	94.	0.61	0.58	0.54	75.67	0.72	0, 4, 5,	0.99	<u></u>	0,43	e)
2.	Jordan Petroleum Refinery Collts.	0.59	0.46	0.54	0.61	9.6	0.52	9,3	÷*•	 	 60 63	12	0.86
1.5	Jordan Phosphate  Mines Co.Lto.	© ©	0.97	9	च- ** •	0.5 4.5	6.7	0.55	9.60	0,45	0,38	0.10	9.59
÷	Industrial Commercial land Agricultural Co.Ltd	90"1	7	1.92	<u></u>	υ*85	0.83	0.75	6.73	0.63	0.76	0.03	0,87
ທ່	Gordan Pines Manufacturing:	1	t	1	6.33	0,82	0.0	1.92	0.73	0.65	3.92	4. 12.	0.73
~0	iArab Potash Co.Ltd.	1	ì	ı	ı	ı	t	1	ı	9.04	E 4	0	9.12
7.	Jordan Spinning and  Reaving CO.Ltd.	1	,	ı	0.24	0.31	0.31	0.24	0.23	0.41	0.58	0.48	0.35
co	Jordan Cement Factories	0.85	0.24	0.24	0.21	0.53	0.54	0.0	9.89	0	÷.	0.22	0.5
	Consolidated total of the leight Companies	6	0.58	0.54	0,46	0.56	0.61	0.52	0.57	0.83	9.85	9.09	1

Sources : Computed from table 3.21 and 3.2

1981 as against 1978 and an increasing trend from 1982 to 1984 as agaainst 1981 and a decrease in 1985 as against 1984. It varied from 0.30 in 1981 to 1.85 in 1984. In the Jordan Phosphate Mines Co. Ltd., the operating assets turnover increased in 1976 against 1975, it shows a decreasing trend in 1977 and 1978 against 1976 and an incareasing trend in 1979 and 1980 as against 1978, remained stable from 1981 to 1983 and again shows fluctuating trend from 1983 to 1985. It ranged from 0.44 in 1978 to 0.97 in 1976. In the Industrial Commercial and Agricultural Co. Ltd., the operating assets turnover shows a fluctuating trend from 1975 to 1985. It ranged from 0.63 in 1983 and 1985 to 1.15 in 1978. In the Jordan Pipes Manufacturing Co. Ltd., the operating assets turnover shows an increasing trend from 1975 to 1981, a decreasing trend in 1982 and 1983 as against 1981 and a fluctuating trend from 1983 to 1985. It varied from 0.37 in 1978 1.02 in 1981. In the Arab Potash Co. Ltd., the operating assets turnover shows an increasing trend from 1984 to 1985. the Jordan Spining and Weaving Co. Ltd., the operating assets turnover increased in 1979 and 1980 as against 1978, a decreasing trend in 1981 and 1982 as against 1980 and again an incareasing trend in 1983 and 1984 as against 1982 and a decrease in 1985 as against 1984. It ranged from 0.23 in 1982 to 0.58 in 1984. In the Jordan Cement Factories Co. Ltd., the operating assets turnover shows a decreasing trend from 1975 to 1978 as against 1975, increasing trend from 1979 to 1982 as against 1978 and a decreasing trend in the remaining years under study. It varied from 0.21 in 1978 to 0.89 in 1982.

On an average, the highest operating turnover was created by

the Industrial Commercial and Agricultural Co. Ltd. and followed by the Jordan Petroleum Refinery Co. Ltd., Jordan Pipes Manufacturing Co. Ltd., Jordan Phosphate Mines Co. Ltd., Arab Pharmaceutical Manufacturing Co. Ltd., Jordan Cement Factories Co. ltd., Jordan Spinning; and Weaving Co. Ltd. and the lowest created was by the Arab Potash Co. Ltd.

The consolidated total of the operating assets turnover of the eight companies ranged from 0.46 in 1978 to 0.85 in 1984. It shows a decreasing trend from 1975 to 1978 as against 1975, an increasing trend in 1979 and 1980 as against 1978, again a decrease in 1981 as against 1980 and an increasing trend from 1982 to 1984 as against 1981 followed by a decrease in 1985 as against 1984.

From the above analysis of the operating assets turnover, we may conclude that the operating assets turnover in the eight industrial companies is not satisfactory.

### Fixed Assets Turnover

Fixed assets may be defined as the assets which are not held for sale or for conversion into cash. Fixed assets include land and building, plant and machinery, office equipment, motor vehicles, freehold land and building, property etc. Fixed assets have been taken at written down value i.e. after the deduction of the amount of depreciation. Fixed assets turnover is a measure of the achievement for utilising the investment in fixed assets. A high fixed assets turnover ratio shows that the company is overtrading on its assets while low ratio reveal the excessive investment in fixed assets turnover ratio shows that the company

is over-trading on its assets while low ratio reveal the excessive investment in fixed assets. The higher the ratio, the better is the position and the lower ratio indicate the inefficiency of the management in purchasing the fixed assets. This ratio is obtained by dividing net sales by fixed assets for a given period.

Fixed Assets

= Net Sales

= ----- X 100

Turnover Ratio Fixed Assets

Table 3.24 indicates the fixed assets turnover in Arab Pharmaceutical Manufacturing Co. Ltd. and shows a fluctuating trend from 1975 to 1978, a decreasing trend in 1978 and 1979 as against 1978, an increased in 1980 as against 1979, again a decreasing trend in 1981 to 1982 as against 1980 and fluctuating trend from 1981 to 1985. The maximum fixed assets turnover made by the company was 3.13 in 1975 and the minimum was 0.71 in 1984, In the Jordan Petroleum Refinery Co. Ltd., the fixed assets turnover ratio shows a fluctuating trend from 1975. to 1977, an increasing trend from 1978 to 1980 as against 1977, decreased in 1981 as against 1980 and shows an increasing trend in the remaining years under study, It varied from 0.50 per cent in 1981 to 4.87 in 1985. In the Jordan Phosphate Mines Co. Ltd., the ratio shows a decreasing trend from 1975 to 1979, a fluctuating trend from 1979 to 1982, an increasing trend from 1982 to 1984 as against 1981 and decreased in 1985 as against 1984. It ranged from 1.48 to 3.84 in 1984. In the Industrial Commerciald and Agricultural Co. Ltd., the ratio shows a fluctuating trend from 1975 to 1977, a decreasing trend in 1978

Table : 3.23 Fixed Assests of the Different Companies Under Study from 1975 to 1985

ŝ
-
Ξ
밤
Ö
靐

1. Arabi Manual 3. Jordi Mines		7	9/:1	1/1	17/8	1979	1980	1931	786 186 1	50 50 50 51	25. 25.	17 17 17 17
2. Jardi 3. Jordi M. nes	Arab Pharmaceutical () (Manufacturing Co.Ltd. )	616933	15 to	1321176	+0124+1	1667840	1673352	2186975	2152578	2175982	2175982 11182749 11081336	1081336
Jorde Hines	Jordan Petrolewa  Refinery Co.Ltd.	896.2511	20978030	61182561	Zabz7441	18274779	19796597	18274778 19796597 37010053 7233868 87947020 59126825 54376995	2338368	87947020	59116315	566922+5
Tige.	Jordan Fhosphate Mines Callto	6157269	7583202	3429895	10890178	19119937	25956982	19119937 25955982 33140553 29144110 24683509	29144110	24683509	2,15+39,20946591	20946591
1 1 1 1	Industrial Commercial and Agricultural Co.Ltd	852647	637409	1195147	121	1373241	1618902	3484785	4499186	439595	44 CO CO CO CO	4845729
	Jordan Pipes Manufacturing   Co.ltd	1197379	1625417	82 <u>9</u> 8007	1930161	1841021	1749920	1668602	1605532	1591795	1401169	1270535
6. Thrab Po	Arab Potash Co.Ltd	163703	318430	320458	2801239	7678027	8323978	8328978 12057593	1.22+08	1.25+08	E	1.15+08
7. Jorda	Jordan Spinning and Weaving Co.Ltd.	1607973	2102411	2198471	2109202	1982244	1950621	2195666	2011394	1578554	1337851	1743607
8. Jordan Co.Ltd.	Jordan Cement Factories Co.Ltd.	2524309	7382195	2600298	8147623	6472900	76167007	6472900 J6167007 35807706 68252618 87018048 90536731	63252628	87018048	90536731	1.8E+08

Sources : Collected from the annual reports of the studied companies.

Mote : In this table the fixed assets have been taken after deducting the amount of depreciation.Operating Assest and Total Assests are the same in case of Jordan Pipes

lable : 5.2\* Fixed Assets Turnover Ratio

		1 1 1 1 1 1 1				111111111111111111111111111111111111111							1 1 1 1 1
	Mame of the Company	1975	1976	1977	1978	6267	Years 1980	1061	 	1993	7961	1935	A.erage
4	'Arab Pharmaceutical 'Manutacturing Co.Ltd.	10	142° 1'~ * *	2.2	ri	2.01	7. 51	E-4 E7	2.36	c1 e0	0.71	0,51	ri
សុរី	Jordan Petroleum Refinery Co.tid.	1.15	0.68	÷	10.1	**** **** ****	Ħ.	Q.	0.67	<del>1</del> 6	4. Co	100 1003 1003	**************************************
tá	Jordan Phosphate  Mines Co.ltd.	44. 44.	2,72	 	1.98	***** **** CO	1.86	1.78	1.93	2.03	co to	10 11	62 44. 60
***	Industrial Cosmercial	2.68	5. 2. 2.	00 62 63	M M	2.73	7,03	₽°	1.03	#7 #7	 	-1	ri
ยวั	Jordan Fibes Manufacturing   Co.Ltd	,	ı		0.0	5.3	1.67	2.13	r1 ⇔ ≪r	<del></del>	7	7.69	
.0	Arab Potash Co.Ltd.	,	ł	t	ı	1	i	ı	,	0.04	0.13	0.28	0.14
-	Jordan Spinning and Heeaving CO.Ltd.	,	1		0.29	0.41	(,42	0.33	es to	0.98		4494 4444	4
င်္က	Jordan Cement Factories !!Co.Ltd.	2.13	0.59	0.62	89.0	3.08	0.64	0.87	0.53	9	0, 48	0.25	0.95
	Consolidated total of the    eight Companies	2,15	1.17		1.21	1.67	1.25		0.89	ing.	2 **	1.12	
1													

Sources : Computed from table 3.23 and 3.2

and 1979 as against 1977, increased in 1980 as against 1979, a decreasing trend from 1981 to 1983 as against 1980 and shows a fluctuating trend from 1983 to 1985. It ranged from 1.18 in 1985 to 3.95 in 1976. In the Jordan Pipes Manufacturing Co. Ltd., the ratio shows an increasing trend from 1978 to 1981, a decreasing trend in 1982 and 1983 as against 1981 and an increasing trend in 1984 and 1985 as agains 1983. It varied from 0.60 in 1978 to 2.65 In the Arab Potash Co. Ltd., the ratio shows in 1985. increasing trend from 1983 to 1985. In the Jordan Spinning and Weaving Co. Ltd. the ratio shows an increasing trend in 1979 and 1980 as against 1978, a decrease in 1981 as against 1980, increasing trend 1982 to 1984 as against 1981 and decreased in 1985 as against 1984. It ranged from 0.29 in 1978 to 1.60 in 1984. In the Jordan Cement Factories Co. Ltd. the ratio decreased 1976 as against 1975 and shows an increasing trend from 1977 1979 as against 1976, a fluctuating trend from 1978 to 1982 and a decreasing trend from 1982 ato 1985. It varied from 0.25 in 1985 to 3.08 in 1979.

On an average, the highest fixed assets turnover ratio was generated by the Jordan Phosphate Mines Co. Ltd. followed by the Industrial Commercial and Agricultural Co. Ltd., Arab Pharmaceutical Manufacturing Co. Ltd., Jordan Petroleum Refinery Co. Ltd. and Jordan Pipes Manufacturing Co. Ltd., Jordan Cement Factories Co. Ltd., Jordan Spinning and Weaving Co. Ltd. and the lowest was generated by the Arab Potash Co. Ltd.

Regarding the consolidated total of the fixed assets turnover of the eight companies, the ratio shows a fluctuating trend from 1975 to 1977, an increasing trend in 1978 and 1979 as

against 1977, again a decreasing trend from 1980 to 1982 as against 1979 and a fluctuating trend from 1983 to 1985. It ranged from 0.89 in 1982 to 2.15 in 1975.

From the above analysis, it can be concluded that the fixed assets turnover ratio of the eight studied industrial companies is not satisfactory as compared to the ideal ratio of 4 to 5 times.

### Current Assets Turnover

Cuurent Assets are the assets which are held by the company for the purposes of conversion into cash e.g. debtors, cash and bank balance, bill receivable, stock, temporary investment etc. The business must have adequate amount of cash available in order to pay the debts promptly. The current assets turnover indicate the turnover of the investment in current assets. This ratio has been calculated by dividing the net sales by current assets for a given period.

Table 3.26 indicates the current assets turnover ratio in the Arab Pharmaceutical Manufacturing Co. Ltd. and shows a fluctuating trend from 1975 to 1978, a decreasing trend in 1978 and 1979 as against 1977, an increasing trend in 1980 and 1981 as against 1979, decreased in 1982 as against 1981, an increasing trend in 1982 and 1983 as against 1981 and decreased in 1985 as against 1984. The highest current assets turned over in 1975 was 1.14 and the lowest was 0.56 in 1982. In the Jordan Petroleum Refinery Co. Ltd., the; current assets turnover decreased in 1976

Table : 3.25 Current Assets of the Different Studied Companies from 1975 to 1935

(Amount in JDs)

 €	Mass of the Company	201	1976	Years 1977	1978	1979	50	1991	1982	60	er 0-	61 61 61 61
***	Grab Pharmaceutical Manutacturing Co.Ltd.	1695546	2904461	3478417	3774632	4402271	4412435	1	514483 10967543	9724308	1	7784355 11472263
e i	Jordan Petroleus  Refinery Co.Ltd.	5574939	9832818	9832619	13427092	21672046	21672046 30159780 37982764 43403359	37982764	42402789	60795104 79556396	79556306	9.5E+08
₩.	Jordan Phosohate   Mines Co.Ltd.	18859975	23591023	28177332	3229295955	32360434	40213102	40213102 38506470 40778775	40778775	45941648	5.3E+08 61074905	6107499
~1°	Industrial Commercial	1130895	2099796	2356593	1789609	3019910	3713199	5129490	4619223	4377960	4297913	3840149
ທັ	Jordan Pipes Hanufacturing!  Co.ltd	हो- १-व १-व १वे- १वे-	526667	1162054	1192504	1277362	1482957	179665	2581654	2674570	2245792	2760899
·ö	Arab Patash ICo.Ltd	688279	798907	516382	3211586	20540608	38652597	15638594	5152133	8413737	12645462	17451630
7.	Jordan Spinning and  Weaving Co.Ltd.	158034	129094	597842	473805	595985	921239	22.982	2701322	2727014	3251204	3245454
ထံ		3617836	11203824	4805399	3206102	6074004	8203327	8203327 16299538 10518468	10518468	11915153	13748834 25018197	25018197

Sources : From the annual reports of the companies under studty.

Table : 3.26 Current Assets Turnover Ratio

Sr. No. 1	Name of the Company	19,73	1976	1973	1978	1979	Years 1980	1981	1982	1983	***	67 65 64	H FY Str. 120
	  Arab Pharmaceutical  Hanufacturing Go.Ltd.	terje word W	0°	8		0.76	56.0	1.05	0,5%	78.6	1.01	0.88	٥ ۾
73	idordan Petroleum Refinery Co.Lid.	ee	45	1.52	un un	und 8 and	0.37	0.75		24 25	1. 2. 2.	2.77	1.93
เก๋	Jordan Phosphate Mines Co.Ltd.		(4.87	0.67	Ů.65	0 80 81	c7 	13.	1.39	et	1.49	된	anniğ M M Maniğ
<del>-4</del>	Undustrial Commercial	2.02	רים יים	4	1.99	1.24	1.22	1.32	1,54	4.	1, 68	EST- NOT TOTAL	7.
ហើ	Jordan Pipes Manufacturing:  Co.Ltd	t	ŧ		0.97	Ü	1.97		5.4	1.01	u**	1.24	الله الله الله
ō	Arab Potash Co.Ltd.  -	,	1	1	1	ŧ	1	·	ſ	9.67		- 1	* 1
7.	Jordan Soinning and Keaving CD.Ltd.	,	ι		117 14	7:1	1.26	0.94	0.4	0.71	0.93	0.73	0.97
ထံ	Jordan Cement Factories	÷.	0.39	1.12	1.74	3,28	2.84	1.92	17) 	3,36	3,19		ed ed
	Consolidated total of the langht Companies	1.33	9.9	0.93	0.99	1.17	1.24	1.28	1.39	2,49	2.42	1.75	ī

Sources : Computed from table 3.25 and 3.2

against 1975 and shows an increasing trend in 1977 and 1978 against 1976, a decreasing trend from 1979 to 1981 as 1978, an increasing trend in 1982 and 1983 as against 1981 and a decreasing trend in 1984 and 1985 as against 1983. It ranged from 0.75 in 1981 to 3.82 in 1983. In the Jordan Phosphate Mines Co., the current assets turnover shows a decreasing trend from 1975 to 1978, an increasing trend from 1979 to 1981 as against 1978, a decreasing trend in 1982 and 1983 as against 1981 and fluctuating trend from 1983 to 1985. It varied from 0.65 in 1978 to 1.63 in 1981. In the Industrial Commercial and Agricultural Co. Ltd., the current assets turnover decreased in 1975 as against 1975, an increasing trend in 1977 and 1978 as against 1976, decreased in 1979 as against 1978, an increasing trend from 1980 to 1982 as against 1979 and shows a fluctuating trend in the remaining years under study. It ranged from 1.24 in 1979 to 2.02 in 1975. In the Jordan Pipes Manufacturing Co. Ltd., the ratio shows a fluctuating trend from 1978 to 1982, a decreasing trend in 1982 and 1983 as aginst 1981 and again a fluctuating trend from 1983 to 1985. It ranged from 0.97 in 11978 to 2.01 in 1979. In the Arab Potash Co. Ltd., the ratio shows an increasing trend from 1983 to 1985. In the Jordan Spinning and Weaving Co. the ratio shows a decreasing trend from 1978 to 1982 and a fluctuating trend in the rest of the years under study. It ranged from 0.40 in 1982 to 1.45 in 1978. In the Jordan Cement factories Ltd., the ratio decreased in 1976 as against 1975, shows an increasing trend from 1977 to 1979 as against 1976, a decreasing trend in 1980 and 1981 as against 1979, again an increase in 1982 as against 1981 and a decreasing trend from 1983 to 1985

against 1982.

On an average, the highest current assets turnover was made by the Jordan Cement Co. Ltd. followed by Jordan Petroleum Refinery Co. Ltd., Industrial Commercial and Agricultural Co. Ltd., Jdordan Pipes Manufacturing Co. Ltd., Arab Potash Co. Ltd., Jordan Phosphate Mines Co. Ltd., Jordan Spinning and Weaving Co. Ltd. and the lowest was by Arab Pharmaceuitcal Manufacturing Co. Limited.

The consolidated total of the current assets turnover of the eight companies ranged from 0.90 in 1976 to 2.45 in 1983. It decreased in 1976 as against 1975, and shows an increasing trend from 1977 to 1983 as against 1976 and again a decreasing trend in 1984 and 1985 as against 1983.

### Net Working Capital Turnover

Net working capital is the excess of the current assets over current liabilities. If the current assets are larger than the current liabilities, the difference would be called "working capital surplus". On the other hand, if the current liabilities are larger than current assets, the difference would be called "Working Capital Deficit". If the working capital in the company is not sufficient, a time comes when the management has to borrow more source for the company. If the creditors or any othe grantor of short term credit examines the balance sheet of the company and finds deficit in the working capital, the working capital will be the centre of attention. M.C. Gupta says "The working capital of the company is the life-blood which flows through the

veins and arteries of the structure. It engages every part of the structure, gives courage, and morale to brain (management) and muscles(personal) digests to the best degree the raw materials used by its constant and regular. flow and return to the heart (cash flow) for another journey and so when working capital is lacking or slows down, the financial body dies and has value only 12 as junk".

Net working capital turnover has been calculated by dividing the total of the net sales by the total of net working capital for a given period.

Net working capital

Trunover Ratio

Net Sales

Net Working Capital

Table 3.28 shows the net working capital turnover in the Arab Pharmaceutical Manufacturing Co. Ltd. and also shows a decreasing trend in 1976 and 1977 as against 1975, an increasing trend from 1978 to 1981 as against 1977, decreased in 1982 as against 1981. an increasing trend in 1983 and 1984 as against 1982 and again a decrease in 1985 as against 1984. It ranged from 0.39 in 1981 to 4.01 in 1984. In the Jordan Petroluem Refinery Co. Ltd., the ratio shows a negative sign in 1975, 1981 and 1982. It shows a fluctuating trend from 1976 to 1980 and a decreasing trend in 1984 and 1985 as against 1983. It varied from (-)3.54 in

1981 to 32.89 in 1980. In the Jordan Phosphate Mines Co. Ltd., the ratio shows a decreasing trend from 1975 to 1978, an

<sup>12.</sup> Gupta M.C., 'Operational Efficiency of Rajasthan State Warehousing Corporation' M. Phil dissertation, University of Rajasthan, Jaipur, 1986, P.108.

Table : 3.27 Net Working of the different Studied Companies from 1975 to 1985.

(Amount in UBs)

<u> </u>	Sr.No.: Name of the Company	1975	1976	Years 1977	1978	1979	1980	1981	1982	1983	1934	1985
	Arab Pharmaceutical  Manutacturing Co.Ltd.	1308277	1663196	2629547	2457348	9670497	2654263	138346	5923645	27177422	29.5293	3100250
	Jordan Petroleum Refinery Co.Ltd.	-(8170755)	3772491	5525325	2825838	11027162	868156	-(3079614-(102754416973164 24509183	-(2027544)	15973264		27591830
ri 	Jordan Phosphate   Manes Co.Ltd.	7920891	8305174	11117134	15205680	12572642	8848809	8868809 10355033 16646732 30600395 32118127	16646732	30600395	32118127	32340500
₩ <b>3</b> * 	Industrial Commercial   and Agricultural Co.Ltd	573380	82226	311175	754940	2206984	1982273	- 19946	5896ui -(95215)	113967	113967 -(215639)	9475n
ນວ່ 	Jordan Proes Manufacturing	-(490399)	-(143462)	-(484884)	-1161885)	-(97621)	11665	912367	1348406	1220820	1569848	1743267
	Arao Potash Co.Ltd	387557	1010	556067	2635547	23276432 31374660	31374660	4022016	-(5772629-	-(1523529	4027016 -(5772623-(1525523-(1436692-(2594018	-(2594018
	Jordan Spinning and Weaving Co.Ltd.	19400	19400 - (476052)	-(100012)	-(63,6700)	-(1088312)	-(132155	-(1332153-((926548-(2224947 2417431	-(2224947	2417431	2725485	2519961
	8. Jordan Cement Factories (Co.ltd.	1117676	5810385	141299	141299 -(2657302)	-(5719553)	265793	7627635	-(874793)-	-(7599955	7627635 -(874793)-(7599955-(6081613-(2719396	-(2719396

Sources : From the annual reports of the studied companies

Table : 3.28

Net Working Capital Turnover Ratio

(Times)

1. IArab Hand 2. Jord 3. Jord Hins 1. Indu	Arab Pharmaceutical Manufacturing Co.Ltd. Jordan Petroleum Refinery Co.Ltd. Mines Co.Ltd.	1.47	W										
and the state of	rdan Petroleum finery Co.Ltd. rdan Phosohate	-(1.26) 7.77	т М	spirit rand Ø spirit	1.24	1.26	1.56	3.92	0.83	2.25	4.91	5,23	10*1
	rdan Phosohate nes Co.ltd.	2.77		2.97	นา รา	2.17	. 32.39	32,89 -(3,54)	-(2.41)	12.24	6.01	cr.	.e.
	•••		5- 5- 5-	7-1	82	2.26	η. δ	E"	15.4	1.36	r.i rr	rd mi	65.5
	Industrial Commercial is and Agricultural Co.Ltd	3.99	5.90	7.31	10.7	7.1	2.47	98.6	-(79.81)	ETT Water ETT ETT ETT ETT ETT ETT ETT ETT ETT ET	54,13 -(33,55)	11.09	7:22
-	Jordan Pipes Manufacturing; Co.ltd		1	ĩ	- (7.19)	-(26.55)	43.95	60	51.5	2.21	2.15	\$ ·-	iri ri
6. iArab	Arab Potash Co.Ltd.	•	1	•	•	•	,	j	1	-(0,34)	-(1.04)	-(5,42)	-(1.40)
7. Jare	Jordan Spinning and Weaving CO.Ltd.	,	1	)-	- (86.0)-	- (0.75) -	- (19.61) -	-(0.79)	0.48	ů.	and and b and	0.97	0.02
8. !Jord !Co.l	Jordan Cement Factories (Co.Ltd.	2. 80 2.	6,49	38.1 -(2.09)		-(3,48)	87.76		4,11 -(49,72) -(5,27)		-(7,22)	-(1.75)	5
Con: leigh	Consolidated total of the l	15.79		2,36	c.1	8	60 1, 1	E.	28,83	10.94	10.1	CO CO	1

Sources : Computed from table 3.27 and 3.2

increasing trend from 1979 to 1981 as against 1978, a decreasing trend in 1982 and 1983 as against 1981 and shows a fluctuating trend from 1983 to 1985. It ranged from 1.39 in 1978 to 5.70 in 1981, In the Industrial Commercial and Agricultural Co. Ltd., the ratio shows a fluctuating trend from 1975 to 1978, a decrease in as against 1978, an increasing trend in 1980 and 1981 1979 against 1979 and it shows a negative sign in 1982 and 1984. the ; Jordan Pipes Manufacturing Co. Ltd., the ratio shows negative sign in 1978 and 1979 and shows a decreasing trend from 1981 to 1985 as against 1980. It varied from (-)26.55 in 1979 to 48.96 in 1980. In the Arab Potash Co. Ltd., the ratio shows a negative sign from 1983 to 1985. In the Jordan Spinning and Weaving Co. Ltd., the ratio shows a negative sign from 1978 to 1981, an increasing trend from 1982 to 1984 as against 1981 and a decrease in 1985 as against 1984. In the Jordan Cement Factories Co. Ltd., the ratio shows a fluctuating trend from 1975 to 1977 a negative sign in 1978 and 1979 and again a negative sign from 1982 ato 1985.

On an average, the highest Net Current Assets ratio was generated by the Jordan Petroleum Co. Ltd., followed by Jordan Cement Factories Co. Ltd., Jordan Pipes Manufacturing Co. Ltd., Industrial Commercial and Agricultural Co. Ltd., Jordan Phosphate Mines Co. Ltd., arab Pharmaceutical Manufacturing Co. Ltd., Jordan Spinning and Weaving Co. Ltd., and the lowest was by the Arab Potash Co. Ltd.

The consoldated total of the net current assets turnover of the eight companies ranged from 1.91 in 1976 to 28.83 in 1982. It decreased in 1976 as against 1975, an increasing trend from 1977 to 1982 as against 1976, again a decreasing trend in 1983 and 1984 as against 1982 and an incarease in 1985 as against 1984.

## Receivables Turnover or Debotrs Turnover

The receivable turnover is calculated by dividing the amount of sales by the amount of receivables or debtors plus bills receivable. The receivable turnover can be increased by making collection within a short period. The higher receivable turnover indicates higher profitability.

It is expressed as follows:

Receivable Turnover		Sales
	-	The course of th
Ratio		Debtors + Bills receivables

I.M. Pandey indicates that the ratio indicates the number of times, on an average, the debtors turnover each year. Generally, the higher the value of the debtors turnover, the more efficient 13 is the management of assets . The receivable turnover ratio may

be low because of over extension of credit, ineffective credit investigation and lack of effective collection policy etc. If the receivable turnover ratio is low, it may reflect the following:

- 1) an increase in the amount of receivable and decreae in the volume of sales.
- 2) a decrease in receivables and a proportionately greater decline in sales volume.
- 3) an increase in the sales and a proportionately higher increae in receivables.

<sup>40</sup> TI 1 4000 D E44

<sup>13.</sup> Ibid, 1979, P.514.

- 4) receivables remains the same with a decrease in sales volume
- 5) an increase in the receivable with no charge in the sales volume.

Since the break down of total sales into cash and credit sales is not available in the annual reports of the selected industrial companies in Jordan, the balance of net sales volume have been assumed to be credit sales.

The receivable turnover ratio of the selected industrail companies in Jordan for the period of eleven years covered by this study has been shown in table 3.30.

Table 3.30 reveals that the debtors turnover ratio in the Arab Pharmaceutical Manufacturing Co. Ltd. and shows a decreasing trend in 1976 and 1977 as against 1975, an increasing trend in 1978 and 1979 as against 1977, a fluctuating trend from 1979 to 1982, a decreasing trend in 1982 and 1983 as against 1981 and fluctuating trend from 1983 to 1985. In the Jordan Petroleum Refinery Co. Ltd. it shows a fluctuating trend from 1975 to 1978, a decreasing trend in 1979 and 1980 as against 1978, again a fluctuating tarend from 1980 to 1984 and a decreasing trend in 1984 and 1985 as against 1983. In the Jordan Phosphate Mines Co. Ltd. it shows a fluctuating trend from 1975 to 1977, a decreasing trend in 1977 and 1978 as against 1976, an increasing trend in 1979 and 1980 as against 1978, a decreasing trend in 1981 and 1982 as against 1980, an increase in 1983 and shows a decresing. trend in 1984 and 1985 as against 1983. In the Industrial Commercial and Agricultural Co. Ltd. it shows 20.77 times in 1975 and 30.20, times in 1976, a decreasing trend from 1977 to 1979 as

Table : 3.29 Receivable of the Selected Industrial Companies Under Study in Jordan.

(Amount in JDs)

		1	*******	1				1 1 1 1 1	11111111			1
Sr.No.	). Name of the Company	1975	9261	Years 1977	1978	1979	1430	C. C.	1992	20 20 10	1994	177 CO 174
	Arab Pharmaceutical Hanufacturing Co.Ltd,	796692	1074272	2035374	1662726	1596459	2298922	2785335	3591937 36170716	36170716	+623996	7724842
r <b>,</b>	Jordan Petroleum IRefinery Coliti	1411527	3476419	1766702	4095924	4972587	neteneal	06381601	27409071	16903190 169081 <sup>9</sup> 0 27409071 13044711 30173412	272276	43221674 43531674
10	Vordan Phosphate   Mines Co.Ltd.	7125542	6776016	8391966	10997457	12507754	16515804 (	23594640	9025045	17507754 16515804 23594640 24909206 14396937 21293482 35655395	21282482	5655575
45 <sup>-</sup>	industrial Commercial and Agricuitural Co.Ltd	110372	169572	301250	490956	24244	1053202	115169	1151009	096367	13317.05	1460439
ьэ <b>.</b>	Jordan Pipes Manufacturing	6928	45928	17006	110396	124553	216258	555286	452448	516904	545557	759057
.a	Arab Potash Co.Ltd	t	1	ı	I	•	ı	•	ľ	1067740	1415253	3536449
	Jordan Sonnnag and !Weaving Co.Ltd.	21140	11094	140036	79585	82312	78688	87778	5000	96872	286547	790002
CO	Jordan Cement Factories    Co.Ltd.	153478	158745	913913	1016261	712974	394724	612334	448832	525025	531453	3412976
												•

Sources : From the annual reports of the Selected Industrial companies in Jordan.

Table : 3.30

Receivable Turnover Ratio

(11185)

	Name of the Company	1975	1976	1977	1978	1979	Years 1980	1981	1982	1983	1984	1985	Average
	iArab Pharmaceutical  Manufacturing Co.ttd.	C 4 101 C 4	1.83	E (7) regin regin word	io -		co 	1.95	1,75	1.69		1.73	<del></del>
c <sub>i</sub>	Jordan Petroleus Refinery Co.Ltd.	7.22	# *** ****	במ ריז ריז	n.,	76° \$	2.43	79**	1.78	10.07	60 60	5.22	נים ניי
1-5	Jordan Phosphate Mines Co.Ltd.	2.97	3,05	57 C7	1.92	6.1 	2.93	មា ព វិ	2,28	3,96	6.41 (1.00 0004	2,09	2,42
****	Industrial Cossercial and Agricultural Co.Ltd	29.77	39.2	12.4	7.28	4	4.66	9.79	, 6 , 7,	4.77	מי טיז	6:2	o. o.
ยา้	Jordan Pipes Manufacturing:  So.Ltd	;	ţ		10°	20.7	13.56	ij	7.25	5.27	-0	ν. υ.	L.
~ó	Arab Potash Co.Ltd.	ı	•	'	1		1	,		0.53	10.6	9,32	-61 -61
r:	Jordan Spinning and  Weaving CO.Ltd.	1	ť		7.91	9.95	10.43	50 41 41	(c)	20.08	10.59	2.5	10
េះ	Jordan Cement Factories	35.06	27.61	5.89	5. 4.	27.97	5.	51.2	16.59	76.35	82,68	41- 	-0 -0
	Consolidated total of the leight Companies	4.29	3.83 3.83	F. 1	3.04	60 P2	 	47 17 17	2.89	P	7.08	~D *1*	ı

Sources : Computed from table 3.29 and 3.2

against 1976, an increasing trend in 1980 and 1981 as against 1979, a decreasing trend in 1982 and 1983 as against 1981 shows a fluctuating trend from 1983 to 1985. It ranged from 3.93 times in 1985 to 30 20 times in 1976. In the Jordan pipes Manufacturing Co. Ltd. the ratio shows an increase to 20.70 times in 1979 as against 10.55 times in 1978. a decreasing trend from 1980 to 1983 as against 1979 and shows a fluctuating trend from 1983 to 1985. It ranged from 0.53 times in 1983 to 10.60 times in 1984. The Jordan Spinning and Weaving Co. Ltd. shows an increasing trend in 1979 and 1980 as against 1978, a fluctuating trend from 1979 to 1983, a decreasing trend in 1983 and 1984 as against 1982 and increased in 1985 as against 1984. Ιt from 7.91 times in 1978 to 31.54 times in 1982. The Jordan Cement Factories Co. Ltd. shwos a decreasing trend till 1978 as against 1975, an increasing trend in 1979 and 1980 as against 1978, declined in 1981 as against 1980, an increasing trend from 1983 to 1984 as against 1982 and a decline in 1985 as against 1984. ranged from 5.49 times in 1978 to 96.91 times in 1982.

On an average, the highest receivable turnover ratio is seems in the Jordan Cement Factories Co. Ltd. as 45.64. times, followed by Jordan Spinning and Weving Co. Ltd. as 13.50 times, take industrial commercial and agricultural Co. Ltd. as 9.75 times, Arab potash Co. Ltd. as 6.48 times, Jordan Petroleum Refinery Co. Ltd. as 5.34 times, Jordan Phosphate Mines Co. Ltd. as 2.42 and lastly by the Arab pharmaceutical Manufacturing Co. Ltd. as 1.80 times.

Regarding the consolidated total of the receivable turnover ratio of the eight companies shows a decresing trend from 1976 to

1978 as against 1975, increased in 1979 as aginst 1978, a decreasing trend from 1980 to 1982 as against 1979, incareased in 1983 as against 1982 and shows a decreasing trend in 1984 and 1985 as against 1983. It ranged from 2.89 times in 1982 to 7.90 times in 1983.

## Average Collection Period

Average collection period means the average number of days for which the company must wait after making sales before collecting cash from the customers. It shows the quality of customers and the rapidity of collections. The shorter the average collection period, the better is the quality of debtors and short term collection of cash from customers and vice-versa. A long average collection period indicates the ineffecient credit collection policy and an increase in the bad debt losses of the company.

The average collection period is calculated by dividing the days in the year by the receivables turnover. It may be expressed thus:

Average Collection Period = Days in a year or 365
-----Receivables Turnover Ratio

Table 3.31 shows the average collection period in the selected industrial companies in Jordan for the period of eleven years covered by this study.

On the basis of the table 3.31 it can be stated that the average collection period in the Arab Pharmaceutical Manufacturing Co. Ltd. shows an increasing trend in 1976 an 1977 as against 1975, a decreasing trend in 1978 and 1979 as against

Table : 3.3

Average Collection Period in the Selected Industrial Companies in Jordan

									~	(Deg(s)			
Sr . No. 1	Mage of the Company	1975	1976	1977	1978	1979	Yaars 1580	1981	7861	1983	1984	1985	Average
·	Hrab Pharmaceutical Hanufacturing Co.ttd.	150	661	255	198	173	202	137	867	217	210	278	207
2.	Nordan Petroleus Retinery Co.Ltd.	C7~ *17*	83	19		4	150	5	233	36	#무리 #무리	ຜ່ວ	ro~
10	Jordan Phosobate	77		162	190	27	<b>3</b> 5		(9)	25	88	E 200	4\$* *** ***
***	Industrial Commercial and Agricultural Co.Ltd		73	61	30	83	73	F3	E3	7.5	â	92	in et
ยา	Jordan Pipes Manufacturing	r	1	ı	17	P ···	25	i	Č.	, c	20	39	• • •
~ <b>c</b>	Arab Potash Co.Ltg.	1	ı	t	ı	ı	ı	1	r	829	34	# <del>*</del>	192
7.	Jordan Spinning and Neaving CO.Ltd.	ı	1	1	~°	ř	1.3 41.	##* ***	===	<u></u>	177	Ę,	77
ဏ်	Jordan Cement Factories   Co.Ltd.	01	13	61	99	m m	<b>~</b> 0	r	to	<b>~1</b> *	₹†	26	1
	- •												

Sources : Computed from table 5.30.

1977, a fluctuating trend from 1979 to 1982, on increasing trend in 1982 and 1983 as against 1981 and a fluctuating trend from 1982 to 1985. It ranged from 150 days in 1975 to 278 days in 1985. The Jordan Petroleum Refinery Co. Ltd. shows a fluctuating trend from 1975 to 1978, an increasing trend from 1978 to 1982 as against 1977, a decrease in 1983 to 36 days and 1985 as It ranged from 36 days in 1983 to 233 days in 1982. Jordan Phosphate Mines Co. Ltd. shows a fluctuating trend from 1975 to 1977, an increasing trend in 1977 and 1978 as against 1976, a decreasing trend from 1979 to 1981 as against 1978, fluctuating trend from 1981 to 1984 and an increasing trend in 1984 and 1985 as against 1983. It ranged from 92 days in 1983 to 190 days in 1978. The Industrial Commercial and Agricultural Co. Ltd. shows an increasing trend from 1977 to 1979 as against 1976, a decreasing trend in 1980 and 1981 as against 1979, increasing trend in 1982 and 1983 as against 1981 and a fluctuating trend from 1982 to 1985. It ranged from 12 days in 1976 to 92 days in 1985. The Jordan Pipes Manufacturing Co. Ltd. shows a fluctuating trend from 1978 to 1980, an increasing trend from 1980 to 1983 as against 1979 and a fluctuating trend 1982 to 1985. It ranged from 17 days in 1979 to 80 days in 1985. The Arab Potash Co. Ltd. shows a fluctuating trend from 1983 to 1985. It ranged from 34 days in 1984 to 688 days in 1983. Jordan Spinning and Weaving Co. Ltd. shows a decreasing trend in 1979 and 1980 as against 1978, a fluctuating trend from 1979 to 1983, an increasing trend in 1983 and 1984 as against 1982 and declined in 1985 to 29 days as against 34 days in 1984. It ranged

from 11 days in 1982 to 46 days in 1978. The Jordan Cement factories Co. Ltd. shows an increasing trend from 1976 to 1978 as against 1975, a decreasing trend in 1979 and 1980 as against 1978, a fluctuating trend 1979 to 1984, remained the same as 4 days in 1983 and 1984 and increased 26 days in 1985 as against 1984. It ranged from 3 days in 1982 ato 66 days in 1978.

On an average, the highest collection period is by Arab Potash Co. Ltd. as 765 days, followed by the Arab Pharmaceutical Manufacturing Co. Ltd. as 207 days, Jordan Phoshpate Mines Co. ltd. as 144 days, Jordan Petroleum Refinery Co. Ltd. as 91 days, Industrial Commercial and Agricultural Co. Ltd. as 54 days, Jordan Pipes Manufacturing Co. Ltd. as 46 days, Jordan Spinning and Weaving Co. Ltd. as 21 days and the lowest average collection period is by the Jordan Cement Factories Co. Ltd. as 19 days.

## Cash Turnover

The management of cash is the most important function in the company. Cash and bank balance are the most liquid assets which can be used for discharging urgent liabilities. Cash is procured by a company from the shareholders and from lenders at cost. Therefore, the management of the company needs to know how to invest the surplus cash which is not needed. On the other hand, if the company does not keep sufficient amount of cash to meet its obligations when they are required, the company may have to face a danger of technical insolvency. In every company, a certain amount of cash at minimum level is required to be kept depending on the nature and size of the company and on many internal and external factors. The management of the company

should prepare a cash budget to forecast the cash requirement at a given period.

While preparing cash budget, the management must be careful of holding excessive cash balance. If cash balances are more than what is required, it involves an additional expense which finally reduces the return on total assets. An excessive cash balance should be invested in marketable securities. The forecasting and planning for cash budget by the management should take care of the liquidity as well as the profitability objectives together int he company.

For the purposes of this study, we will analyse and examine the position of cash and bank balances in relation to the current liabilities. This ratio is determined by dividing the cash and bank balances by short-term obligations falling due for payment within a period of one year. It can be expressed as follows:

The ratio of cash and bank balances to current liabilities in the selected industrial companies in Jordan has been shown in table 3.34.

Table 3.34 reveals that in the Arab Pharmaceutical Manufacturing Co. Ltd., the ratio shows a wide fluctuating trend from 1975 to 1979, a decreasing trend from 1979 to 1981 as against 1978, raised to 124.70 percent in 1982 as against 0.47 percent in 1981, declined to 0.70 percent in 1982 and shows an increasing trend in 1984 and 1985 as against 1983. It ranged from 0.47 percent in 1981 to 124.70 percent in 1982. The ratio in the Jordan Petroleum Refinery Co. Ltd. shows a fluctuating trend from

Table : J.32 Cash of the Selected Industrial Companies Under Study in Jordan.

=
Ë
c:
털
5
7

137 NO.	. Name of the Company	50	1976	Years 1977	1978	6791	1980	1991	1982	1981	40	p
	Arab Pharaaceutical Manufacturing Co.Ltd.	19101	787457	17271	1059346	11,63255	104882	17937	5043105	27647	127607	000000000000000000000000000000000000000
c4	Jordan Petroleum Refinery Colitd.	162479	332657	150752	1097124	5875083	8577758	4525094	3774807	E	8240273	
15 	Jordan Phosphate Mines Co.Ltd.	926534	1511912	1434853	1378852	273964	2616318	900613	9953	9466498 14246499	14246499	7131644 H
***************************************	Industrial Commercial iand Agricultural Co.Ltd		21863	79282	31492	43147	79816	215134	260830	237970	155703	017
87 	Jordan Pipes Kanufacturing'  Co.Ltd	port port and	ici ici	1394	110967	3312	21946	3752	60.35	:45.	:1755	
-å	idrab Potash  Co.Ltd	352242	761500	558439	2528490	23012759 24559462 12539784	26359462	12539384	20672	72740	1:55276	5703789
	Jordan Soinning and	97149	8376	220	7527	27.23	5938	115719	9889917	1256433	2640268	
çő 	Jordan Cement Factories	1938482	5809068	1154549	41299	537482	165451	141673	274900	370008	292562	421916

Sources : From the annual reports of the Selected Industrial companies in Jordan.

Table : 3.32 Current Liabilities of the Selected Industrial Companies Under Study in Jordan.

(Agount in Ids)

1.   Frab Pharasceutical   357269   1241265   998870   1511294   1758985   1758173   578557   494584   5779237   184584   5779237   1768985   1758173   578557   494584   5779237   176898   1708073   9592254   20004884   29531224   4962718   573657   1187087   1187	2	, Hage of the Company	1975	9.61	Years 1977	1978	6261	(861	100.	7891	1953		1 101 001 01-
Jordan Potroleum   13744794 6060727 5208739 9593254 20604884 19551224 46062718 5505577	! ! ! !	Arab Pharaceutical Manufacturing Co.ltd.	357269	12021	9)8870	1211284	1758985	1738173	7558577	4042897	100000000000000000000000000000000000000	7579775	
Jordan Phosohate		Jordan Petroleum Pefinery Co.Lto.	46144161	6060327	5208739	927055 457055	19870902	# 1777 E				41871746 SS 55133	1 1 1 1 1 C
Industrial Commercial   557515   1264200   1845418   1024649   812926   1730826   4439889   4714428   and Agricultural Co.Ltd	13 	Ubrdan Phosphate Thines Co.Ltd.	11239084	15295849	851v90L1	17090075	30837792	31344299	18151437	24132043	15340753	955Z690Z	25734405
Jordan Pipes Manufacturing  534513 670129 1646938 670127 534513 1423046 983702 1537256   Co.Ltd		Industrial Commercial and Agricultural Co.Ltd	557515	1264200	1845 42 61	1024649	776712	1730826	4439889	4714478	4267993	100 100 100 100 100 100 100 100 100 100	Cr- FF 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
thrab Potash	มรั 	lordan Pipes Manufacturing: Co.Lto	10 10 10 10 10 10 10 10 10 10 10 10 10 1	621019	1646938	470127	57451	1423046	983702	1537758	0101471	.0 .0 .0 .0 .0	1917527
Jordan Spinning and 178654 605153 658754 1080505 1684797 1583458 1712870 4763755 1884797 158348 1712870 4763755 1884797 158348 1712870 4763755 1884797 158348 1712870 4763755 1903 11393261 100.Ltd.	κ <b>ά</b>	Arab Potash Co.Ltd	4577	2666	50215	576629	3264175	7237957	11615578	10924761	24700672		26045648
Jordan Cement Factories   2500160 2393439 4664100 5863404 11793557 7937534 8671903 11393261   10.Ltd.	r	Jordan Selaning and Heeving Co.Ltd.	13001	20123	457875	1084505	1584797	1983438	1712370	476375	16000 16000 16000	G	17 17 14 14
•	co*	Jordan Cement Factories (Co.Ltd.	2200160	2393439	4664100	5863404	11793557	7937534	8671903	11393261	8791468	8791468 19830447	52212162

Sources : From the annual reports of the Selected Companies Under Study.

Table : 3.34

Cash and Pank Ralance to current reliabilities Ratio

(Percentage)

										•			
Sr. No. 1	.i Name of the Company	175	1975	1977	87.51	1979	Years 1980	1981	1982	G- CO F-2	1754	₽7 CO E1-	\$ \$ \$ \$
	: Arao Pharaaceutical :Hanutacturing Co.Lid.	2.62	44. 40.	21.94	1.08	66.43	ιο. 10	74.0	124.7	7.4	2.13	2,28	33.7
	Jordan Petroleum Refinery Co.Ltd.	CO	ស	5.5	to"? red: e	33, 37	29.02	9.83	77 67: 15	"#" "" ""	073 873		12.08
10	Jordan Phosphate   Mines Co.Ltd.	60	9.89	œ.	8.06	0,89	t) 10	5	9.27	7.10	.5°.	10.09	17,15
<b>4</b>	Industrial Commercial land Agricultural Co.Ltd	7		2.07	3.07	53, 07	4. 	च् <u>च</u> ६० **	10 10 10 10	בת היי	1. 41.	77	e. 0
ur3	Jordan Fipes Manufacturing  Co.ltd	0.02	0.21	80 ' 6	6.0	9.16	14 14 14	ç.,	0.39	*** ©	17.7	1 / 1 / •1	107 107
-å	Arab Potash Co.Ltd.	118839.02	28578,39	109.98	439.94	705	762,18	119.53	<u></u>	67.0	1	6	4561.3
F	Jordan Spinning and Weaving CO.Ltd.	70.07	1.38	0.07	7.0	9.10	67.0	, o	45 85 85 85	730.17	4.72.49	543.08	191.72
co	Jordan Céaent Factories  Co.Lto.	13.	242.7	24.75	0.7	ma. n.o.	2.08	1.63	या: एउ	er.		o.	32.97
		13.77	33.62	12.02	16.49	5. 1.	45.71	17.81	9.62	7	20,99	6. 6.	
-	-	-		1									

Sources : Computed from table 3.32 and table 3.33.

1975 to 1978, an increasing trend in 1978 and 1979 as aginst 1977, a declining trend from 1980 to 1983 as against 1979 and a fluctuating trend from 1983 to 1985. It ranged from 1.18 percent in 1975 to 33.37 percent in 1979. The Jordan Phosphate Mines Co. shows an increase of 9.89 percent in 1976 as against 8.24 percent in 1975, a decreasing trend from 1977 to 1979 as against 1976, raised to 8.34 percent in 1980 as against 0.88 percent in 1977, a decining trend in 1981 and 1982 a against 1980, a wide increasing trend in 1983 and 1984 as 61.70 per cent and 68.84 percent respectively as against 0.27 percent in 1982 and declined to 10.89 percent in 1985. It ranged from 0.27 percent in 1982 to 68.84 percent in 1984. The Industrial Commercial and Agricultural Co. ltd. shows a decline of 1.72 percent in 1976 as against 2.11 percent in 1975, an increasing trend from 1977 to 1979 as against 1976, decreased in 1980 to 4.61 percent as against 53.07 perent in 1979, an increasing trend from 1981 t 1983 as against 1980 and a decreasing trend in 1984 and 1985 as against 1983. from 1.72 percent in 1976 to 53.07 percent in 1979. The Pipes Manufacturing Co. Ltd. shows a fluctuating trend from 1975 to 1978, an increasing trend from 1978 to 1980 as agains t1977, a declining trend from 1981 to 1983 as against 1980 and a fluctuating trend from 1983 to 1985. It ranged from 0.02 percent in 1975 to 2.45 percent in 1980. The Arab Potash Co. Ltd. shows a very high ratio from 1975 to 1981, a wide declining trend in 1982 and 1983 as 0.18 and 0.29 percent respectively as against 110.53 percent in 1981 and an increasing trend in 1984 and against 1983. It ranged from 0.18 percent in 1983 to 28578.39

percent in 1976. The Jordan Spinning and Weaving Co. Ltd. shows a declining trend in 1976 and 1977 as against 1976, a fluctuating trend from 1977 to 1980, a wide increasing trend from 1981 to 1983 as against 1980 and a declining trend in 1984 and 1985 as against 1983. It ranged from 0.07 percent in 1977 to 730.17 percent in 1983. The Jordan Cement Factories Co. Ltd. shows a fluctuating trend from 1975 to 1977, a decline of 0.70 percent in 1978 as against 24.75 percent in 1977, a fluctuating trend from 1977 to 1980, a declining trend in 1980 and 1981 as against 1979, an increasing trend in 1982 and 1983 as against 1981 and agan a declining trend in 1984 and 1985 as against 1983. It ranged from 0.70 percent in 1978 to 242.70 percetn in 1976.

On an average, the highest cash and bank balance to current liabilities ratio is evident in the Arab Potash Co. Ltd. as 4561.30 percent followed by Jordan Spinning and Weaving Co. Ltd. as 191.72 percent, Arab pharmaceutical Manufacturing Co. Ltd. as 33.70, Jordan Cement Factories Co. Ltd. a 32.97 percent, Jordan Poshpate Mines Co. Ltd. as 17.15 percent, Jordan Petroleum Refinery Co Ltd. as 12.08 percent, Industrial Commercial and Agricultural Co. Ltd. as 8.01 percent and the lowest by the Jordan Pipes Manufacturing Co. Ltd. as 0.55 percent.

The consolidated total of the cash and bank balances to current liabilites ratio of the eight companies shows a fluctuating trend from 1975 to 1978, an increasing trend from 1978 to 1980 as against 1977, a declining trend in 1981 and 1982 as against 1981, an increasing trend in 1983 and 1984 as against 1982 and a decline in 1985 as against 1984. It ranged from 9.62 percent in 1982 to 45.71 percent in 1980.