FINANCIAL ANALYSIS

CHAPTER 10

FINANCIAL ANALYSIS

Summary of chapter 10

I. Presupposed conditions of the financial projection

(1) Basic calculation conditions

① Financial projection's project term=1980-1999

Construction term 5 years operating term 15 years

- ② Steelwork's operating scale = First stage 1.5^{mil. t} scale through the whole project term
- 3 Time of calculation = Mar. 1979 (consideration not given to commodity price fluctuation)
- 4 Study's basic case = Basic sales price (Mar. 79 est, price)

Tax exemptions based on I.I. Act

(2) Capital and long term loan conditions (unit million\$)

	Amount	Remarks				
Capital	320.0	25% of facilities investments amount excluding interest during construction				
Long term loan	959.6	Effective rate of 9%, deferred during construc- tion. Repayment term 10 years				
Sub-total	1,279.6					
Reborrowing of interest during construction	160.5					
Facilities investments	1,440.1					

(3) Working capital conditions

Short term loan interest rate = 16% (suitable for net working capital)

(4) Tax system conditions

Items	o	Ordinary tax levys	Tax incentives (I.I. Act.)		
Customs duty Specific tax	(mil. \$/y) 16.7 0.1	10% customs tax Tax on volume	Rate of exemption by $\begin{cases} 0 \sim 5 = 100\% \\ 6 \sim 8 = 75\% \\ 9 \sim 10 = 50\% \end{cases}$		
Advanced sales tax Tax on imported raw materials	12.1 28.9	10% tax rate	year 11 ~ 12 = 20% 13 ~ 15 = 10%		
Real property tax	14.6	2.25% tax rate	3 year tax exemption after start- ing operation for only machinery and equipment		
Sales tex	36.9	10% tax rate	Yearly tax exemption		
Corporate income tax		35% tax rate			
Imported machinery and equipment	-	Customs duty 10% Compensating tax 10%	Tax exempt		

II. Results of the calculation

Omitted (refer to III-(3))

III. Analysis of calculation results

(1) Profit-loss analysis by product type (average value in usual year) (Unit: \$/t)

r				 				1000
	Product	Sales price	Prod. cost	Trans. cost	General admin exp.	Interest	Total cost	Profit
	Billet Hot coil	375.0 395.0	276.7 282.1	6.4 5.6	15.0 15.8	42.9 45.1	341.0 348.6	34.0 46.4

(Note) Production cost is the cost after tax adjustment.

(2) Profit-loss Break-even point analysis

Break-even point operation level = 1.116^{thous.t} (operation rate: 77.2%)

(3) Simulation analysis (Profit-loss and funds) (unit million\$)

	Books one								
	Basic case		Simula	tion case 1	Simula	tion case 2	Simula	tion case 3	
Case pre-	Basic sale	es price	Basic sales price		 Sales pri 	ce 5% up	Sales price 5% down		
sumptions	• Tax exer	np. based on	Limits o by P.D. 5% tax I	n tax exemp. No. 1352 and evy	• Tax exe I.I. Act.	mp. based on	Tax exemp. based on l.l. Act.		
Year (After operation)	Profit- loss (after tax)	Funds (*1) balance accumulated	Profit- loss (after tax)	Funds balance accumulated	Profit- loss (after tax)	Funds balance accumulated	Profit- loss (after tax)	Funds balance accumulated	
1	10	-34	-35	63	7	-17	-32	-56	
2	46	-12	38	-53	60	19	37	-43	
3	62	26	41	-40	81	76	43	24	
4	63	64	42	-26	81	133	44	-4	
5	69	109	49	– 5	88	199	50	22	
6	66	149	48	14	84	258	48	44	
7	–40	44	-55	-108	-26	168	-54	74	
8	93	112	86	-51	106	249	80	–19	
9	75	161	59	–21	93	319	56	12	
10	82	217	67	17	100	397	64	50	
11	79	378	66	172	96	575	61	193	
12	79	539	66	327	96	753	61	336	
13	74	696	63	479	92	927	57	475	
14	-16	710	-24	491	-3	954	29	475	
15	74	1,080	63	863	91	1,340	57	828	

^{(*1):} Positive indicate funds surplus, while negative indicates funds deficiencies

(4) Analysis of investment efficiency (unit %)

	Basic case	Simulation case 1	Simulation case 2	Simulation case 3
ROI	8.16%	6.86	9.45	6.81
ROE	9.96%	6.78	13.17	6.72

(5) Analysis of effects on national economy (Basic case)

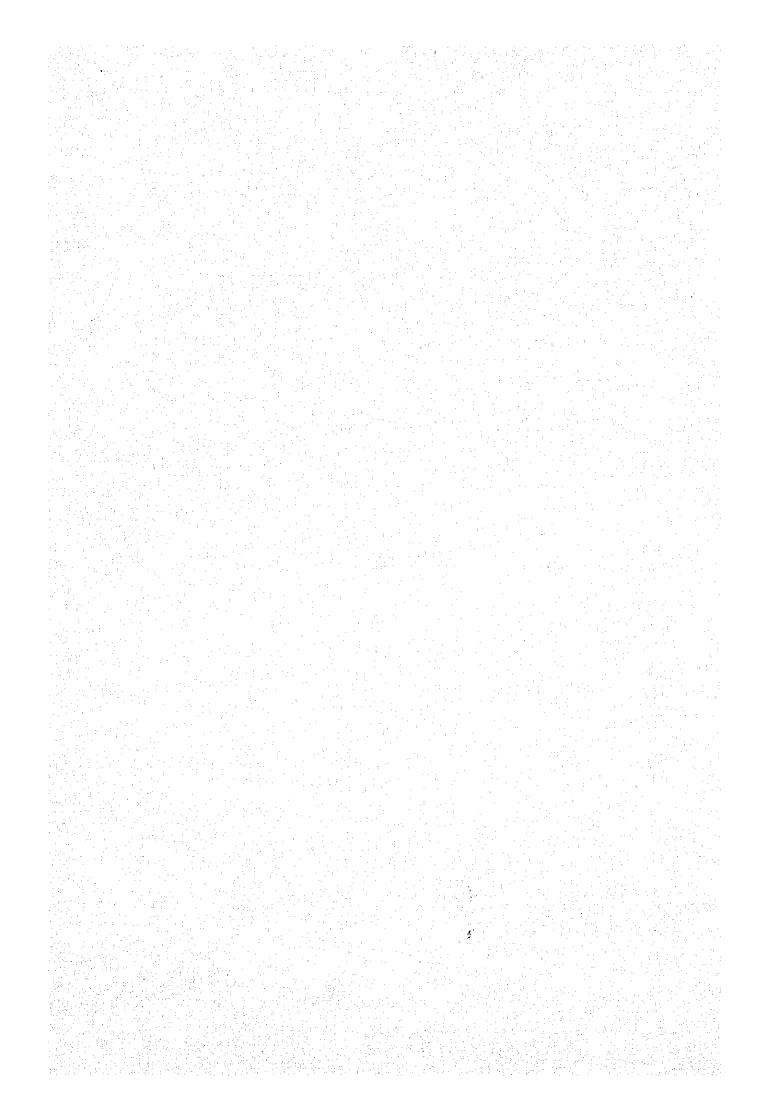
(1) Value added effects (unit million\$)

(Unit: mil.\$)

	6th year	13th year
Tax receipts effects	66.6	113.9
Compensation of employees	7.9	7.9
Capital consumption allowance	80.3	75.5
Operating profits	66.0	74.4
Total value added	220.8	271.7
Value added rate	39.4%	48.5%

(2) Balance of payments effects (unit billion\$) (Effect on foreign exchange savings)

	Accumulated amount
Foreign import steel products substitution	6.0
Imported raw materials	2.4
Interest on loans	0.6
Foreign construction cost repayment	8,0
Total foreign exchange out flow	3.8
Net foreign exchange savings	2.2



CHAPTER 10 FINANCIAL ANALYSIS

10-1 Basic presupposed conditions and output (Presupposed Conditions No. 1)

In this chapter the calculations were carried out based on the presupposed basic conditions hereunder in accordance with the objectives of this project.

Basic Presupposed Conditions

- Financial projection's project term=1980—1999
 (Construction term 5 years, operating terms 15 years)
- ② Time of calculation = March 1979
 (consideration not given to commodity price movements)
- Scale of steelworks = Stage I 1.5^{mil. t} scale through whole project term
- Output of financial projection = Profit and loss statement
 ment Balance sheet
 Cash flow statement
- Study's simulation case = Using the basic case as the standard only the following factors change:

Simulation case 1 — Limitations on tax exemptions based on I.I. Act by P.D. No. 1352

Simulation case 2-5% increase in basic sales price only

Simulation case 3 - 5% decrease in basic sales price only

The projected project term is 20 years with 5 years for construction and 15 years for working period of main machines and facilities. If it is to cover a total of 20 years we think it is possible to measure the investment effectiveness of this project. Starting operation in 1985 as calendar year, after two years of starting up period full production of 1.5^{mil. t} capacity matches amount of demand in 1987 projected demand.

- 10-2 Basic presupposed conditions in accounting profit and loss statement (Presupposed conditions No. 2)
- 10-2-1 Production sales plan

(1) Production plan

The year by year production plan matching growth of projected demand with the starting up plan of facilities, set up in section 4-2 the "The start up of production plan in stage I" for the first 2 years. For the third year full production will start at necessary demand amount of 1.5^{mil. t}, threafter excluding decreases in the 7th and 14th years for BF-Relining, normal year production will progress at 1.5^{mil.t}. This plan is shown in *Table 10-2-1*.

(2) Sales plan

The *Table 10-2-2* sales plan was made with the above production plan as a base. For the convenience of calculation, shipments were presumed to equal production, although in reality it is necessary to have previously made a standard inventory amount. However, the problem with standard inventory amounts is consideration of required working capital calculation. Basically the production plan itself was based on matching, to the extent possible, the possible amount of sales based on projected demand. This is as noted before.

Table 10-2-1 Production plan

ed Foresta

PROTESTAL	-	-	-	-	-			
<u>5</u>	1,367	746	1,434	1,569	300	150	1,179	1.052
14	665,4	363.1	0.869	763.7	146.0	73.0	573.9	512.1
13	1,367	746	1,434	1,569	300	20	1,179	1.052
12	1,367	746	1,434	1,569	300	150	1,179	1.052
7. j.	1,367	746	1,434	1,569	300	150	1,179	1,052
10	1,367	746	1,434	1,569	300	150	1,179	1,052
ത	1,367	746	1,434	1,569	300	150	1,179	1,052
ω	1,367	746	1,434	1,569	300	150	1,179	1,052
7								
9								
ഗ	1,367	746	1,434	1,569	300	150	1,179	1,052
4								
ო							1,179	
2	1,367	746	1,434	1,485	990	150	1,103	976
1985	1,234	709	1,295	1,071	275	74	662	534
Year after operation operation start	Sinter	Coke	Molten pig iron	Liquid steel	Bloom	Billet	Stab	Hot Coil
	1985 1 2 3 4 5 6 7 8 9 10 11 12 14	Year after Operation Operation (1) 1985 3 4 5 6 7 8 9 10 11 12 13 14 1,234 1,367	Year after J985 3 4 5 6 7 8 9 10 11 12 13 14 1,234 1,367 1,46	Year after Operation Stand 1985 2 3 4 5 6 7 8 9 10 11 12 1367 1,46 465.4 466.4 466 746 746 746 746 746 746 746 363.1 Poligition 1,295 1,434	Year after Jobs 1985 3 4 5 6 7 8 9 10 11 12 13 14 1,234 1,367 1,448 1,448 1,434 1,569 1,569 1,569 1,569 1,569 1,569	Vear after operation stant 1985 3 4 5 6 7 8 9 10 11 12 13 14 1,234 1,367 1,46 363.1 1,46 746 <td< td=""><td>Year after Operation State 1985 3 4 5 6 7 8 9 10 11 12 13 14 1,234 1,367 1,48 1,48 1,48 1,43</td><td>Year affer operation operation 1985 3 4 5 6 7 8 9 10 11 12 13 14 1,234 1,367 1,369 1,569 1,569 1,569 1,569 1,569 1,569 1,569 1,569 1,569 1,569 <td< td=""></td<></td></td<>	Year after Operation State 1985 3 4 5 6 7 8 9 10 11 12 13 14 1,234 1,367 1,48 1,48 1,48 1,43	Year affer operation operation 1985 3 4 5 6 7 8 9 10 11 12 13 14 1,234 1,367 1,369 1,569 1,569 1,569 1,569 1,569 1,569 1,569 1,569 1,569 1,569 <td< td=""></td<>

Table 10-2-2 Sales plan

		: .	٠.		ė,			J V
_				, 1 1 1				
1,000	7.		0	144	150	100		1,446
Cnit	14	0	0	70.1	73.0	48.7	512.1	703.9
	13	0	0		150		1,052	1,446
 	12	0	0	144	150	100	1,052	1,446
	-	0	0	144	150	100	1,052	1,446
	10	0	0	144	150	100	1,052	1,446
	6	0	0		150			
7	ω	0	0	144	150	100	1,052	
	7	0	0		73.0			703.9
	ဖ	0	0		150	100	1,052	1,446
	ည	0	0	144	150	100	1,052	
	4	0	0	144	150	100	1,052	1,446
	က	0	0	144	150	<u>8</u>	1,052	1,446
	2	40	0	144	150	9	926	1,393
	1985	292	76	198	74	100	537	1,277
	Year after operation starts	on						
	roducts	Cast Pig Ir	Ingot	Bloom	Billet	Slab	Hot Coil	Total

CHAPTER 10

(3) Sales price

Although the price of the iron ore has the greatest influence on profit-losses of the project, it is easily subject to the influences with balance of supply and demand and domestic and foreign economic conditions so that there are very large movements therein. Consequently, in conducting a study estimating price fluctutations several years in advance, it is not advisable to include in the study itself a thing of such extreme unreliability. Thus in this study we will make estimates based on current prices. In reference to price fluctuations, in the project plan we will substitute the usual most current price.

In construction of the steelworks, since a major objective is the replacement of imports, we will estimate the sales price of the steelworks via the current (March, 1979) Philippines import price for steel products. The process is, first estimating the average C&F price of steel products in the Philippines, then adding the current 10% customs duty and various other charges together with the Advanced sales tax as the cost it would cost to obtain the goods, (i.e. landed price), and then using that as the sales price.

However, as for semi-finished products, since the buyers thereof tend to concentrate on certain special consumers, the market is not perfect. Accordingly, since the market information is not sufficient, price estimates are difficult. In that area we will try to compensate partially therefor in our estimates by taking the differences in general production costs of the advanced countries.

Table 10-2-3 Sales price estimate (Basic case)

(Unit: \$/t)

Product	Sales price	C&F imported good	Remarks
Cast pig iron Ingot	182 310	245	Fe merit assessment of imported scrap at \$192
Bloom	360	280	
Billet	375	295	
Slab Hot coil	365 395	285 310	

(4) Production cost for sales

Costs compared to sales, based on the profit-loss statement are calculated as shwon below by item with the results of the costs calculation of Chapter 9 as the base.

Objects of and method of production cost for sales calculation

(Unit: mil. \$)

Objects	Calculation method
① Variable cost	Variable cost by products type x Shipment amount
Production fixed cost	Term fixed costs excluding ③ & ④ below
③ Depreciaton & amortization	• Changes by year
4 Provision of reserve for BF-relining	 As the 7th and 14th years are blast furnace relining years, there are not reserves.
⑤ Tax adjustment	 Changes by year Supplementary tax exemption based on the i.i. Act from the usual tax levys on items ① and ② Changes by year (refer to Item 10-3-2)
Production cost for sales	

(5) Transportation cost

In reference to selling conditions, since the study was conducted on C&F shipment at major ports to the consumers, the steelwork's portion of the C&F shipment costs were estimated thereon. The average per ton of transportation costs for all of the sales products are shown in *Table 10-2-4* by category of products.

As the basis for calculating the average transportation cost, a division was made between the primary destination of the sales products, Iligan (or Mindanao island) and Manila. The estimated ratios for each thereof is shown in *Table 10-2-4*. As for hot coil, it is forecast that a little part of it will be bound for Iligan (Mindanao). This is based on regional forecasts.

Namely, we investigated considerable demand of finished steel products produced by using hot coil as material in this area in future. Therefore we can expect that the factories consuming hot coil will be settled separately from Manila.

As in each case there is a large volume and constant flow of transport and since overland transport is fiarly expensive, the calculation was based on marine transport.

Furthermore, for the same reason, estimated costs of special transport charges, on a discount basis, were used. However, as ingot and cast pig iron are spot, normal tariffs were used.

CHAPTER 10

Table 10-2-4 Transportation costs of sales products (unit 1,0001)

Sales products	lligan (Mindanao)		Manila	1 11	Total	Average transport
awkeys to the telephone	(@ 2.08 \$/t)	%	(@ 7.14 \$/t)	%	Shipments	unit cost
Cast pig iron	(thous, t)	0	(thous, t)	100	(thous, t)	8.60 \$/t
Ingot		100		0		2.50
Bloom	22	15	122	85	144	6.37
Billet	23	15	127	85	150	6,36
Slab	0	0	100	100	100	7.14
G. I, sheet use	192	80	48	20	240	
Tin plate use	0	0	192	100	192	
CR S/C use	154	70	66	30	220	
HR S/C use	51	20	205	80	256	
Pipe & tubes use	29	20	115	80	144	
Hot coil	426	40	626	60	1,052	5.57 ^{\$/t}

Site to Higan 2.50 $^{\$/t}$ (Special rate 2.08 $^{\$/t}$) Site to Manila 8.60 (" 7.14)

(6) General administrative expenses

Head office expenses are estimated. Head office expense estimations are based on the head office organization and manning plan as explained in Chapter 7.

10-3 Tax system and tax adjustment (Presuppsed conditions No.3)

10-3-1 Ordinary tax levies

The major taxes related to this project, excepting corporate income tax, is summarized as follows. Among those, the following 4 are included in the cost calcualtion for the usual operating year

- (a) Customs duty
- (b) Specific tax
- Advanced sales tax

related to imported raw material costs

and

d Real property tax - related to fixed assets

Since the sales tax on the sales products is not included in the costs calculation, it must be added to the profit-loss calculation. For the usual taxation year, the tax calculation (value of tax object, tax rate, tax amount) is shown in *Table 10-3-1*.

	Tax system {ordinary}
	医的医阴壁畸形 化邻甲酚 化二十分复数
1. Imported raw materials	
1) Duties Tariff & customs code	(RA NO. 1937)
1-1) Tax standard	Home consumption value X 1.1
1-2) Duty rate (F/S related items)	
	20%
Bunker alumina	20%
Other imported raw materia	als10%
Specific tax (F/S related items)	
Imported coal	
3) Advanced sales tax (F/S related item	
3-1) Tax standard	(Home consumption value X 1.1 + tax & charges) X 1.25
3-2) Tax rate	. 10%
2. Real property tax	· 图 · 图 · 图 · 图 · 图 · 图 · 图 · 图 · 图 · 图
1) Tax standard	. Assessed value of the fixed asset
2) Method of assessment	. Current and fair market value
	* For F/S, learning from the example of an existing steel
	company, it is estimated at 50-60% of acquisition cost.
3) Tax rate	. 2.25%
	大學語 医胸膜切迹 医二十二十二十二醇
3. Sales tax	
1) Tax standard	
2) Tax rate	
3) Tax credit	(a) Advanced sales tax on imported raw materials
	(b) Sales tax on local purchases
4) Net sales tax	Sales tax liabilities
	(less) tax credit
	<u> B. C. C.</u>

Table 10-3-1 Usual year tax amount calculation

1. In relation to imported raw materials

	Usual tax levy	Rer	narks
	Osuai tax jevy	Tax/Variable cost	
Customs duty	16,659 thous. \$	6.516 %	
Specific tax	48	0.019	
Advanced sales tax	12,150	4.753	
Total	28,857	11.288	

2. Real property tax

		Fair market *1 value	Assessed Value	Assessed rate	Real *2 property tax	
		thous. \$	thous, \$	%	thous. \$	
	Land Building & structures	31,600 380,800	15,800 190,400	50 50	360 4,280	
1	Machinery & equipment	725,500	435,300	60	9,790	
	Vehicles	17,700	8,850	50	200	\[\frac{15 \text{ yrs} = 12,500}{\text{trucks} \text{ (5 \text{ yrs} = 5,200} \]
	Total	1,155,600	650,350		14,630	

^{*1} IDC and engineering fees excluded from the acquisition cost of fixed assets.

Sales tax

		Debit or (Credit)	Amount	Remarks
Gross	sales tax	Debit	50,921 ^{thous.} \$	
Loão	Adv. sales tax	Credit	(12,150)	Imported material
Less	Sales tax	Credit	(1,853)	Domestic material
Net s	ales tax	Debit	36,918	

^{*2} Real property tax rate is 2.25%.

10-3-2 Tax incentives

In contrast to the ordinary tax in the previous paragraph the tax incentives thought related to this project are summarized below.

- Tax incentive provisions are all noted in the Investment Incentive Act (R.A. No. 5186). We have assumed that this project will be recognised as a "registered enterprise and pioneer enterprise" of this I.I. Act and will receive the special tax exemptions thereunder. The study was based on this assumption. Based on the tax exemptions, yearly tax adjustment and sales taxes are shwon in *Table 10-3-2*.
- ②On April 21, 1978, Presidential Decree No. 1352 partially amending and restricting the I.I. Act was issued. Furthermore, one month later as an amendment thereto Presidential Decree No. 1395 was issued to amend the earlier decree. Based on these, importation of machinery and facilities by registered enterprises will not receive tax exemption and will be assessed with a 5% tax to the old examption portion. In addition, a 5% tax was also levied on the tax exempted portion related to imported raw materials. The case where the tax exemptions of the I.I. Act were restricted in this way by Presidential Decree 1395 we made simulation case 1.
- ③ Section 5 of Presidential Decree No. 1395 has the provisions providing for the restoration of the tax exemptions. Base on that, the President of the Philippines can, upon the advice of the Fiscal Incentive Review Board, when found in the interests of the national economy, restore the tax exemptions. Accordingly, the Basic Case of this study is made with the assumption that authorization for restoration of the tax exemptions will be received.

Tax incentives estimates (Summary)

It is assumed that authorization as a "registered enterprise and pioneer enterprise" as provided for in the I.I. Act (R.A. No. 5186) will be received.

1. Investment incentive act

1) Tax exemptions for imported machinery, facilities and spare stores

From the day of registration of the enterprise 7 years thereafter, there is a 100% tax exemption from duties and compensating tax for amounts used in the project.

2) Tax exemptions from the duties and national taxes except for income taxes

First 5 year	. 100 tax exemption 🖯
√ Years 6 ~ 8	. 75% "
Years 9 ~ 10	. 50% "
Years 11 ~ 12	
Years 13 ~ 15	. 10% "

Real property tax

Machinery and equipment tax exemption for 3 years from start of operations

3. Presidential decrees No. 1352 & 1395 (April 21, 1978; May 31, 1978)

1) Abolishment of tax exemption on imported goods

All imported goods currently enjoying tax exemptions from duties and national taxes (excluding volume taxes) were each given a 5% tax levy.

* This was handled in this financial study as Simulation Case 1.

2) Abolishment of tax exemption on imported machinery, facilities and spare stores

Machinery imported after Dec. 31, 1981 by a registered enterprise before April 21, 1978 will not receive the application of the exemption.

* In this financial study for the basic case, we assumed that the tax exemption provisions as used previously would specially be used in this case. (The case where there is not tax exemption is handled as Simulation Case 1.)

Table 10-3-2 Tax adjustment calculation statement (Basic case)

(Unit: thous. \$)

Cofee to	Sales tax	Tax payment	0	0	0	.0	0	9,231	4,494	9,231	18,462	18,462	29,536	29,536	33,227	16,175	33,227
		Tax amount at usual rate	27,969	34,977	36,918	36,918	36,918	36,918	17,971	36,918	36,918	36,918	36,918	36,918	36,918	17,971	36,918
-					·							N 12 N 12 N 15					
	Total tax	adjustment	-32,822	-37,270	-38,653	-28,857	-28,857	-21,707	-10,600	-21,707	-14,493	-14,493	-5,835	-5,835	-2,950	-1,469	-2,950
×	ζ.	Tax payment	4,838	4,838	4,838	14,634	14,634	14,570	14,570	14,570	14,570	14,570	14,570	14,570	14,570	14,570	14,570
Real oronerty tax	במו הוחהמונא נ	Tax adjustment	962'6-	962'6-	962'6-	0	0	-64	-64	-64	-64	-64	-64	-64	164	-64	-64
		Tax amount at usual rate	14,634	14,634	14,634	14,634	14,634	14,634	14,634	14,634	14,634	14,634	14,634	14,634	14,634	14,634	14,634
<u>ھ</u>		Tax payment	0	0	0	0	0	7,214	3,512	7,214	14,429	14,429	23,086	23,086	25,971	12,643	25,971
Specific tax &	es tax	Reduced tax rate	100%	90	100	100	100	75	75	75	20	က္သ	50	50	0	0	10
Customs duty, Spe	Sa	adjustment	-23,026	-27,474	-28,857	-28,857	-28,857	-21,643	-10,536	-21,643	-14,429	-14,429	-5,771	-5,771	-2,886	-1,405	-2,886
Ö		Tax amount at usual rate	23,026	27,474	28,857	28,857	28,857	28,857	14,047	28,857	28,857	28,857	28,857	28,857	28,857	14,047	28,857
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CHAPTER 10

10-4 Non-operating business profits and losses (Presupposed conditions No. 4)

Outside of steel products, the primary business of the new steelworks, the external sales of by-products and surplus electric power are added to the non-operating profit-loss calculation. In *Table 10-4-1* the non-operating profit-loss statement is shown. Since in these cases the selling price is equal to deduction for by-products (expense deduction in the case of electric power), the profit-loss is zero.

Table 10-4-1 Non-operating revenues & expenses

	Chiamant	Rever	ues	Expenses	Profit or loss
	Shipment	Unit price	Amount	Amount	Amount
Tar & pitch oil	42 thous. t	71.0 \$/t	thous. \$ 2,982	thous. \$ 2,982	0
Light oil	11 "	106.0	1,166	1,166	O
Coke breeze	130	50.6	6,578	6,578	0
Lime stone (fines)	21 "	6.5	136	136	0
Burnt lime (fines)	2 "	6.5	13	13	0
Electricity	51,714 ^{thous, kwH}	0.018 ^{\$/kwH}	931	931	0
Total			11,806	11,806	0

10-5 Suppositions in the calculation of cash flow table (Presupposed conditions No. 5)

10-5-1 Corporate organization of the new steelworks

As an assumption of this study we assumed that a new company would be established which would take the form of a limited liability corporation.

10-5-2 Equity and raising of required investment funds

The funds necessary for the new steelworks were estimated in chapter 8. The timing and method of raising the funds is forecasted as below:

(1) Timing and amount of necessary funds

Sala Pagilian A

In reference to the timing of the necessary funds, first we had to presuppose a construction schedule and then predict the time of payment and the rate of payment.

As for purchases of equipment, we had to make an estimate taking into consideration the time of contract, the time for fabricating the machinery, shipment time, inspection time etc.

As for civil, erection and installation works, we considered the contract time, construction time, inspection time etc. In reference to the amount required, it is as shown in *Table 10-5-1*.

Table 10-5-1 Raising of funds and payment forecasts during construction

(Unit: mil. \$

	4 - 7 - 17 - 17 - 1	1.11				to the	(Unit: mil.\$
Year Items	Construc- tion term 5	-4	-3	-2	-1	Start operations 1	Total
(Required investment funds) Imported facilities & engineering fees							
Educational, training and operational	4.0	151.0	126.0	330.0	123.0	37.0	771.0
guidance expenses Expenses for reserve	et, Adlandia Tana Tana				18.0	17.0	35.0
stocks spare stores					36.0		36.0
Domestic construction Initial organization	8.3	65.3	97.0	114.0	133.0	10.0	427.6
expenses Sub total	0.3 12.6	0.7 217,0	2.0 225.0	3.0 447.0	4.0 314.0	64.0	10.0
Interest during construction	0.1	8.2	23.9	49.1	79.2	64.0	1,279.6 160.5
Total required investment funds	12.7	225.2	248.9	496.1	393.2	64.0	1,440.1
Capital (paid in)	10.0	40.0	70.0	90.0	100.0	10.0	320.0
Long-term loan Accumulated	2.7	185.2	178.9	406.1	293.2	54.0	1,120.1
long term loan	2.7	187.9	366.8	772.9	1,066.1	1,120.1	(1,120.1)

(2) Capital

From the above noted required funds, about 25% of the amount, excluding the interest during construction, is regarded as capital. That amount is \$320^{mit}. This comes to cover a large part 3/4, of domestic construction costs. As to what the equity ratio will be, external factors such as the possibilities of obtaining loans and the project owner's management policies will have a great influence thereon. Here, as a supposition of this study, the 25% minimum basis will be used as recommended in the guidelines for use by the Board of Investment at the time of corporation's registration to it and the guidelines used by the Development Bank of the Philippines when it guarantees loans. The payment of capital has been made to correspond with the estimates of payments of domestic construction costs.

(3) Loans

The difference between the necessary amount and the amount of paid in capital will be raised via long term borrowings.

The amount of interest incurred during the construction term will be calculated as an addition to borrowings.

In reference to the raising of these amounts, various methods have been given consideration. For basic infrastructure facilities such as electric power development, fishing industry development, waterworks, etc., low interest financing from the International Bank for Reconstruction and Development (I.B.R.D.) and the Asian Development Bank (A.D.B.) etc. are possibilities. In the case of industrialization projects, generally for the imported machinery and the engineering services related threto, there are financing possibilities from government related export financing institutions of the exporting country. Also, since there are situations where the 15-20% of contract amount down payment is not eligible for such government related financing from the exporting country, then there are situations where the amount may be borrowed from foreign city banks. On the contrary, in the limit of down payment portion, there are also situations where it is possible to bring in financing from the government related institutions of the exporting country for the domestic installation of the imported machinery. These foreign borrowings are extremely difficult to forecast as to which country and which financial institution to borrow from. Of course with the world interest movements in this age of violently changing exchange rates the problem of what currency do you borrow, and for various other reasons, the standard of interest rates has been in extreme flux. Consequently, since the raising of the funds is at a pending stage, there is nothing left but to think about in a general way. The average conditions for the raising of funds in summarized as below:

Conditions for the procurement of long-term loans

Usage: Necessary funds for capital investments

Average effective interest rate 9%

Deferment term Until the commencement of business

(interest during the term of construction will be reborrowed)

Repayment methd Equal payments of principal

Borrowing timing Mid-term
Repayment End of term

10-5-3 Conditions of raising working capital

(1) Forecast for necessary working capital

When the new steelworks starts operations, there will be a need for working capital to support current assets. A portion of these necessary funds will be raised by current liabilities. However, for that portion for which these financial resources will be insufficient, in other words the portion called net working capital, will be raised in principle via short term borrowings. The forecasts of the necessary working capital for the new steel works are shown in *Table 10-5-2*. Since normal operating situations will be entered from the 3rd year of operation, the third year was taken as the forecast year.

Based on *Table 10-5-2* the necessary working capital (in other words the net working capital) is \$51.9 million.

Table 10-5-2 Working capital forecast (third year)

(Unit: thous \$)

ltem	Amount	Forecast assumptions
Current assets		
Cash on hand and in banks (Corresponding to min. liquidity on hands)	4,668	Estimated at 0.1 of one month's sales
Accounts receivable	46,678	One month of sales
Other liquid assets	23,339	½ of one month's sales (accounts due, suspense payments etc.)
Inventory	(85,360)	
Raw materials	55,214	Estimated at 2.5 months of average raw material costs (pymts)
Semi-finished products	19,925	Estimated as at ½ months average operating cost of semi-finished products
Finished products	10,221	Estimated at 0.3 months average production cost for sales
Sub total	160,045	
Current liabilities		
Accounts payable	52,307	3 months of imported raw materials, 1 month domestic raw materials, 1 month supplies
accrued expenses	3,815	Average one month expenses
Other liquid liabilities	18,671	Estimated at 0.4 months of sales (suspense accounts etc.)
Reserve for taxes	33,309	Taxes corresponding to the previous term's profits
Sub total	108,102	
Net working capital	51,943	

Note: Cash on hands and in banks (min. liquidity on hands) is non-interest earning accounts.

(2) Condition for raising short-term borrowings

Short term loans will be made from the Philippines' city banks. Interest will be the ceiling rate set by the Philippines Central Bank. The suppositions of this case about the conditions for raising short term loans are as summarized below.

Conditions for raising short-term borrowings:

Interest rate: 16% (From domestic city banks, unsecured, including 2% service charge).

Loan terms are estimated as one year rolled over yearly.

10-5-4 Corporate income tax

A 5% corporate development tax on corporate income has been added to the existing 25—35% levy of corporate income tax. However, in this study's basic case the prior method is utilized. Changes in the tax syste? are handled in special calculations as simulation case 1. The suppositions of this case about the Philippines corporate tax system are summarized below.

Philippines corporate income tax system (Summary)

Loss carry overs

- 1-1) I.I. Act authorized enterprises can carry over losses
- 1-2) I.I. Act (R.A. No. 5186)

For a period of 10 years after commencement of business, it is possible to carry over losses for 6 years from the time that they occurred.

2) Corporate tax

2-1) Step corporate income tax rate

 (Up to and including 100,000 Pesos
 25%)

 (Over 100,000 Pesos
 35%)

- * In this financial study for convenience sake a 35% rate is used.
- 2-2) Enactment of new Corporate development tax
 - i) Taxable corporations
 - i-i) Closed corporations (5 of fewer owners) or
 - i-ii) Net taxable income exceeds 10% of net worth
 - ii) Tax rate 5%
 - * In this financial study this corporate development tax is handled in simulation case 1.

10-6 Results of the financial forecast calculations

Based on the various suppositions relating to the financial forecast explained up to the previous paragraph the EDP output of the results of the financial forecast calculations calculated on a year by year basis have been collected and recorded as in the following with respect to the basic case.

Table 10-6-1 Profit and loss statement

Table 10-6-2 Cash flow table

However, in reference to Balance Sheet output, different kinds of suppositions about the policy for profit disposition of the management are necessary to make the calculations. Accordingly, in this study they were collected, recorded and given separate treatment in 10-11 Appendix. The EDP output of the various Simulations Cases are recorded in the "Financial forecast detail" in Chapter 15.

Table 10-6-1 Profit and loss statement. (Basic case)

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10-6-1 Characteristics about profit and loss

Special points related to the pfits-losses of the project based on the profit-loss statement as noted below, can be understood by reading.

- 1 Although the pre-tax profits in the first year are in deficit, as in the second year sales will reach 95% of that of a normal year, profits will reverse the trend back into the positive.
- After that for the usual year the tax exemption benefits will gradually decline, but on the other hand, as long term loan interest liabilities will decrease, so they will be setting each other off and the level of profits will be developing along the \$95—125 million level.
- In the 7th year there will be blast furnace relining and sales will be halved so that there will be a large scale deficit. However, by the second relining process in the 14th year as the long-term loan interest liabilities will have been disposed of, a large scale deficit as in the 7th year will not occur.

10-6-2 Characteristics about cash flow

The calculation of the cash flow balance based on the cash flow table is in Table 10-6-3.

Table 10-6-3 Cash flow balance.

(Unit: Mil. \$)

			CORRECTIONS OF
Year after operations commence	Total applications	Total resources	Balance
1	265	231	-34
2	167	189	22
3	160	198	38
4	157	195	38
5	157	202	45
6	157	197	40
7	114	9	-105
8	194	262	68
9	157	206	49
10	157	213	56
11	44	205	161
12	44	205	161
13	44	201	157
14	15	29	14
15	82	452	370

In the initial year there will be deficiency of fund, but after that there will be small surplus of funds. However, in the 7th year as that is a deficit year, there will be large scale shortage of funds. As to where this funds will be raised will become a big topic. From the 11th year the long-term loans will have been completely repaid so that there will be a large surplus of funds. Therefore in the 14th year there will not be a shortage of funds and the project will somehow get through.

CHAPTER 10

10-7 Profit-loss analysis (Economical evaluation analysis No. 1)

10-7-1 Profit-loss by product type.

The profit-loss by product type of the products to be sold by the new company are shown in *Table 10-7-1*.

It is necessary to look at this profit-loss by product type as the profit-loss averaged in an ordinary year. Thus even if the cost items were in reality progressively changing, the calculation was based on average costs. The cost averaged items were the interest, tax compensation amount and sales tax amount.

Table 10-7-1 Profit-loss by product type (Ordinary year)

					Total cost			(44) 1, %	ď	Profit	
Products	Shipment	Sales	Production cost	Tax adjustment	Transporta- tion cost	General Administrative expenses	Interest	Total	Per ton	Amount	Remarks
Bloom	144 thous.t 360.0 \$/t	360.0 \$/t	240,0 \$/t	∆ 8.5 \$/t	6.4 \$/t	14.4 \$/t	41.1 \$/t	293,4 \$/t	66.6 \$/t	9.6 Mil \$	
Billet	150	375.0	286.9	Δ10.2	6.4	15.0	42.9	341.0	34.0	5.1	
Slab	100	365.0	235.7	∆ 8.4	7.1	14.6	41.7	290.7	74.3	7.4	
Hot coil	1,052	395.0	292.5	Δ10.4	5.6	15.8	45.1	348.6	46.4	48.8	
Total	1,446	387.3	282.7	Δ10.0	5.8	15.5	44.3	338.3	49.0	70.9	

(note). 1 The tax compensation amount was calculated on a 50% tax examption as the average of the tax incentives.

as the average of the tax incentives.

2 Sales taxes were included in general administrative expenses.

Interest was calculated on the annuity method basis.

CHAPTER 10

10-7-2 Profit-loss break even point analysis

The break even point of the new steelworks is shown in Figure 10-7-1. The figures used as the basis of the calculation are, as in the previous paragraph, average figures of an ordinary year. The results of the analysis are summarized as follows:

- 1) Break even point: 1,116^{thous} tons
- 2) Operation rate on break even point: 77.2%
- 3 Since the steel industry is a capital intensive industry, fixed costs are high and so the profit loss break even point is also high.
- 4 Furthermore, since the steel industry is a very basic industry changes in economic trends lead to rather large level fluctuations in operating rates. Accordingly, in order to maintain the lowest possible profit-loss break even point, it is necessary to endeavor for resistibility to these fluctuations in operating levels.

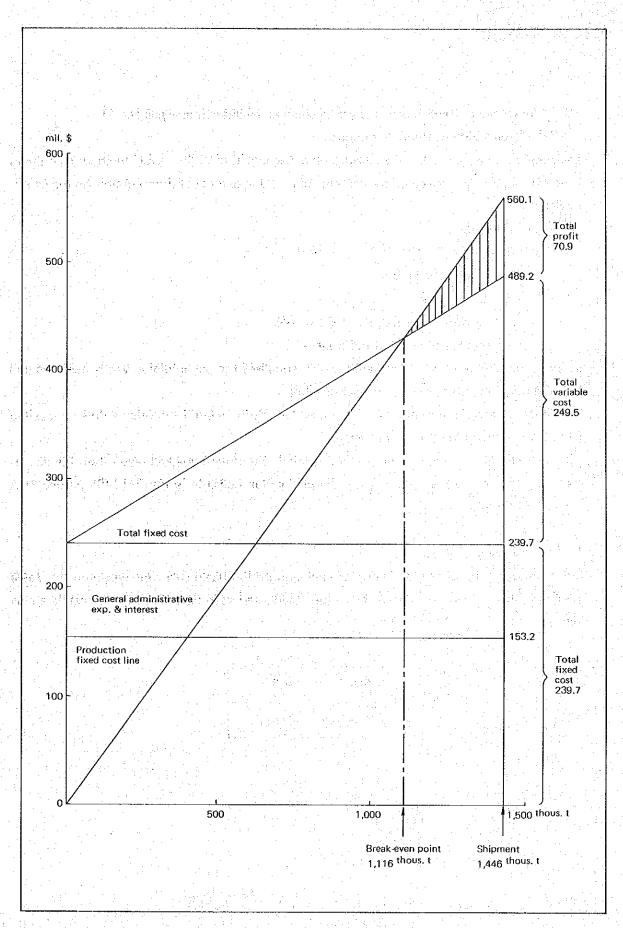


Fig. 10-7-1 Break-even point analysis

10-8 Investment effectiveness analysis (Economic evaluation analysis No. 2)

10-8-1 Explanation of the DCF method

Investment profitability is usually based on the discounted cash flow (DCF) method. That theory is to make a judgment based on the present value on the extent of return possible on the capital invested.

Method of calculation

Co =
$$R_1/(1+i) + R_2/(1+i)^2 + + Rn/(1+i)^n$$

Co = initial investment

i = rate of return

Rn = income & earnings in the nth year.

n = number of years of the project

In short, the rate of return is evaluated, which equalizes the accumulated yearly earnings (Rn) at present value with the initial investment (Co).

ROE (Internal rate of return on equity) is the rate of return on equity, in other words forecasting what percentage of dividends is possible.

ROI (Internal rate of return on investment) is what rate of earnings will result from the investment. In other words the judgment on the percentage possible to return to the parties from whom the funds were raised.

10-8-2 ROE and ROI

Although the investment effectiveness calculation for the basic case was based on the *Table 10-6-2* Cash flow table, *Table 10-8-1* is the Discounted cash flow table. Those results are as follows:

Table 10-8-1 DCF table

(F) PROJECT : THE PHILIPPINES INTEGRATED STEEL MILL PROJECT (FINAL-F/S)	PPINES INTEG	(F) PRO RATED STEE	JECTED EF	FICIENCY I	(55) L-F/S)			PAG TAG	PAGE= 7-1 DATE= JUL/11/1979	1979
		10	RGE = 9+96 DISCOUNTED CASH F	9.96 CASH FLC	TABLE					
CALENDAR YEAR PROJECT YEAR	O46 101 0	1951	1982	1983	1984	1985	1986	1987	1988	1989
ANNUAL CUMUL AT I VE	110000000000000000000000000000000000000	- 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	-120000-	-210002	1300000	-354539	-332136	37780-	38516-	4509
DISCOUNT RATE DO STATE DISCOUNTED COMPLATIVE	11 000 000 000 000	0.90946	0.82712		0.68413 -240391.	0.62219 -268103	0.56566 -255426.	-235984	-217957.	-19876
CALENDAR YEAR PROJECT YEAR	1090	1661	1 9 9 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	0 0 0 0 0	1 999.4 104	1995	1996	1997	1998	1999
ANNUAL CUMULATIVE DISCOUNTERATE	1,640764	127 386 57 10 10 10 10 10 10 10 10 10 10 10 10 10	000 000 000 000 000 000 000 000 000 00	205938156593. 0,332020 0,359321	400 400 400 400 400 400 400 400 400 400	160700	221173. 0.21906	3775253	3 0 1 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	369798 761159 0-1647
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(F) PROJECTED EFFICIENCY I		ш	
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		AES TRABEGRATED STEEL KILL DROJECT (FILALFE/S)	

PROJECT : THE PHIL	(F) PRGJ THE PHILIPPINES INTEGRATED STEEL	(F) PRGJ SRATED STEEL		CTED EFFICIENCY INDEX (T-US PROJECT (FILL-F/S)	ADEX.			0. C) 소소 AH	30L/11.	/1979	
		5	ROI = DISCOUNTED	B.16 % CASH FLC	TABLE						
PROJECT YEAR	ເນນ ຜູ້ ໃ ຜູ້	1981	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	0 0 01 010	1964	1985	1986	1987	1988 4	1989	
CUMULATIVE	-12717-	-225209	-245886 -456815	1 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	-1457190	-1296117.	-1058467	-815690	-593216.	-371220.	•
DISCOUNTED COMULATIVE	12717	-220930 -220930	-433670.	-0.79.25 -825656.	-11597251	-10.67548	9.62450 -914068•	-9,57737	-655141.	0.49351	. :
CALENDAR YEAD PROJECT YEAD	1990	1661	1992	ino c r	1994	1995	1996	1997	1998	1999	
ANNUAL ATIVE	202136	-117594	200533	27513	162760.	159412.	160709.	154201.	11977:	371459.	
DISCOUNT WATE	-45.45 335577	0.42183	-353427	1.00 - 00 - 1.00 - 0.00	-222101+	-172470-	-127178	0.26343	0.24355	0.22517	

10-9 Simulation analysis (Economic evaluation analysis No. 3)

The financial estimates of the basic case were carried out up until section 8. In section 9, based on changes in the supposed conditions of the financial forecast, simulation analysises will be made of the 3 Simulation cases.

10-9-1 Set-up of the cases.

The cases were set-up as noted below based on changes in the selling prices and on reduction measures with respect to tax exemptions, the primary conditions in the financial forecast.

- In the Basic Case prices are estimated at the current price as of March, 1979. Taxes are based on the assumption that the tax exemptions measures available under the Investment Incentive Act are authorized for this case.
- ② In Simulation Case 1 only taxes are changes. In other words, in accordance with the Presidential Decree issued in 1978, the tax exemption on imports are limited partially. In addition, the new Corporate Development Tax added to the corporate income tax will also be assumed to be levied.
- 3 In Simulation Case 2 the only change is a 5% increase in the selling price of all products.
- 4 In Simulation Case 3 the only change is the 5% decrease in the selling price of all products. On the following page is a summary of the set-up of the Simulation Cases.

	Simulation case set-up (Summary)	
Case	Provisions for tax exemption reductions (refer to 10-3-2)	Selling price
	(1) Tax incentives based on the Investment incentive act (1) Imported machinery, facilities & spare stores exemptions from customs duties and compensating tax	March 1979 estimated price
Basic case	② Imported raw materials tax exemptions by year from customs duties, specific tax & advanced sales tax	(Hot coil = \$395/ton) base
	③ Sales tax Exempted from taxes by year	
	(2) Real property tax 3 year tax exemption from start of operations on machinery and facilities	
	(1) Reduction of tax exemptions provided for imported goods under the investment incentives act via presidential decrees No. 1352 & 1395	
	Imported machinery, facilities and spare stores a 5% tax is imposed on the portion exempted from custom duties and the compensating tax	
Simulation Case 1 (changes in	② Imported raw materials a 5% tax is imposed on the portion exempted from customs duties, specific tax and advanced sales tax	Same as basic case
taxes)	③ Sales tax same as basic case	
	(2) Real property tax tax exemptions same as in basic case However, increase in fixed assets will be taxed	
	(3) Enactment of corporate development tax 5% levy on corporate income	
Simulation Case 2 (price change)	Same as basic case	5% price increase for all products {Hot coil = \$414.8/t}
Simulation Case 3 (price change)	Same as basic case	5% price decrease for all products (Hot coil = \$375.3/t)

10-9-2 Results of simulation calculation and analysis thereof

(1) Summary of the changes involved in Simulation case 1

The differences between the Basic case and Simulation case 1, based on tax changes are shown in the following points. The influence on pre-tax profits in the 6th year shows a \$\times 20.9\text{mil.}\$\$ deficit in profits.

Summary of changes (6th year)

(Unit: thous. \$)

		Basic case	Simulation case	Difference	Remarks
Dire	ect construction costs	728.0	802.6	▲ 74.6	5% tax on imported
Lor	ig term loans	959.6	1,034.2	▲ 74.6	machinery facilities
Inte	rest during construction	160.5	173.7	▲ 13.2	
	Depreciation	80.3	85.1	▲ 4.8	
	Tax compensation abolishment	-21.7	-11.1	▲ 10.6	
ar)	Long term loan interest	50.4	54.4	▲ 4.0	
\ea	Real property tax	14.6	15.7	▲ 1.1	large scale increases
th:	Operating interest payments	0.6	1.0	▲0.4	in fixed assets
	Pre-tax profits	101.6	80.7	▲ 20.9	
	Reserve for tax	35.6	32.3	3.3	basic case = 35% simulation case 1=40%
	Net profits	66.0	48.4	▲17.6	

Note: The "A" in the difference column indicates a deterioration in profits.

(2) Comparison of profit-loss and funds for each case

- The tax change (Simulation case 1) and the 5% decrease of sales price (Simulation case 3) look very similar in their influence on profits.
- (2) In both cases a little profits do occur, but there are a lot of funds problems. Simulation case 1 is particularly bad. For the first 10 years after operation there are hardly any surpluses of funds. In other words, it will take 5 years to solve the initial funds deficiency problem. And then just when it looks like the funds deficiency can be solved, in the 7th year the blast furnaces must be relined and at once it will become necessary to make large amounts of short term loans.
- 3 Funds surpluses will finally appear in both cases after the 11th year when the long term loans have been completely repaid.
- The 5% increase in sales price case (Simulation case 2) provides an extremely stable management basis. There is a deficiency of funds in the initial year only, and thereafter, if used in the internal reserves, to that extent there is no problem.

Table 10-9-1

(1) Basic case

	~~~~			
13   14   15	260	74	370	1,080
14	273		7	
13	260	74	157	969
12	188	79	161	
11	260	79	161	378
10	280	83	26	217
6 8	560	75	49	161
ω	560		88	
7.	273	140	40 -105	44
ဖ	260	99	40	149
5	260	66	45	109
4	260		æ	64
က	260		æ	26
2		46	22	-12
11	424	0	134	-34
ation				accumulated
Year after oper	Sales	After tax profits	Cash flow balance	Cash flow balance accumu
		7	က_	4

(note). A "-" in items 3 & 4 indicates a deficiency in monies.

(2) Simulation Case 1

		-	<u> </u>		
:	12.	560	83	372	863
٠.	14	273	-24	12	491
	13	560			479
	12		99	155	327
	11	560	99	155	172
	10	560	67	æ	17
	6	560	ලු	8	-21
	8	560	98	22	-51
	7	273	-55	-122	14 -108
	9	260	\$	<u>ნ</u>	14
	ເກ	260	64	21	က်
	4	260	42	4	-26
	က	260	4	<u>C</u>	-40
	2	531	æ	9	-53
	•	424	35	-63	-63
					accumulated
		ales	After tax profits	Cash flow balance	Cash flow balance, accumulate
			2 Afi	က္လ	4 Cas

(3) Simulation Case 2

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	-	2	ო	4	5	ပ		ω	တ	10	7	12	<u>.</u>	14	15
	446	557	288	588	588	288	286	588	288	588	288	588	288	286	
	7	8	<u>~</u>	Ω	88	8	-26	106	83	8	96	96	92	100	5
3 Cash flow balance	-17	ဗ္တ	22	57	99	66	6	8	70	78	178	178	174		386
Cash flow blance accumulated	-17	13	9/	133	199	258	168	249	319	397	575	753	927	954	1 340

(4) Simulation Case 3.

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u		57	25	828
14	259	73	C	475
13	532	22	39	475
12	532			336
=	532			100
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7 :-	259	4854	118	-74
9	532	48	22	44
വ	532	ගි	56	22
4	532	4	20	4-
က	532	43	ည	-24
2	504		<u>9</u>	-43
1	403	-32	56	-56
		ax profits	ow balance	w balance accumulated
	Sales	After to	Cash fic	Cash flc

(3) Comparison of the investment efficiency of each case

Noted hereunder is the comparison of the ROI and ROE of each case.

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Case	ROI	ROE
Basic case	8.16%	9.96%
Simulation case 1	6.86	6:78
2	9.45	13,17
" 3	6.81	6.72

10-10 Analysis of the effects on the national economy (Economic evaluation analysis No. 4) Up to the previous section, an administrative analysis and the economic effects of the steel-works were looked at from the viewpoint of the project owner. Here we will change our viewpoint and we will look at the steelworks from the viewpoint of its effect on the national economy and the contribution made thereto. However in this survey we will examine only the primary direct effects of the steelworks. In addition to these direct effects, the indirect effects induced by these are espected considerably goods.

#### 10-10-1 Added value effects of the new steelworks

The added value effects of the new steelworks for the Basic case are shown in *Table 10-11-1*. As is shown in the 6th and 13th year the taxes differ based on differences in the tax exemption rates. It is thought that changes from the 16th year and thereafter in the figures will be close to that of the 13th year. Those points are summarized below.

(1) Total added value

6th year = \$220.8 million (value added rate = 39.4%)

13th year = \$271.7 million (value added rate = 48.5%)

This also has the effect of adding the same amount to the Phippine gross national product.

The employment effects for direct employment will be about 4,000 people. Assuming for example that each employee there are 5 family members, the project then provides support for about 20,000 family members. Of course in order to support them there will be indirect effects on education, health treatment and waterworks etc.

	(direct employment)	(estimated number of family members)
Steelworks	3.901 people	
Headquarters	164 people	
Total	4,065 people	20,325 people

Table 10-10-1 Added value effects of new steelworks (Basic case)

(Unit: mil. \$)

76 🗀	Amount of	value added	
項目	6th year	13th year	Remarks
Customs duty Specific tax Advanced sales tax Real property tax Sales tax Corporate income tax	4.2 - 3.0 14.6 9.2 35.6	15.0 0.1 10.9 14.6 33.2 40.1	16.7 mil. \$  0.1  (tax exemptions \ 6th year = 75% \ 13th year = 10%)  36.9
Tax revenues effect	66.6	113,9	
Compensation of employees	7.9	7.9	Headquarters = 7.2, Steel works = 0.7 ^{mil.} \$
Capital consumption allowance	80.3	75.5	Depreciation & amortization
Operating surplus	66.0	74.4	Net profits after tax
Total added value	220.8	271.7	Gross national product
Value added rate	39.4%	48.5%	(Value added/Sales)

In the usual concept of value added, taxes are only indirect taxes.

Corporate income tax is included in operating surplus. However, here, from a single enterprise viewpoint, it was included in taxes.

# 10-10-2 Effects on the international balance of payments

One of the major objectives of this steel works project is the savings of foreign currency through substitution for steel product imports. The foreign currency savings effect of this new steelworks project for the basic case is shown in *Table 10-11-2* 

1) Total foreign exchange savings effect of the project

Total substitution of imported steel products	6,008 \$millions
Imported raw material costs	2,389
Interest payments on foreign currency denominated loans	551
Payment of foreign construction cost	842
Net foreign currency savings	2,226

- By year, although in the first there will be a net outflow of foreign currency, every other year except the 7th will show a savings of foreign currency. Furthermore, from the 11th year and thereafter, the trend of yearly savings of about \$265 million should have extremely favorable influence on a country like the Philippines with a severe foreign exchange problem. It is estimated that for the 16th year and thereafter, the trend should continue in the same way.
- The same is also true about the profit situation of the new steelworks, but as there is a considerable relationship between the imported steel market price and the imported raw materials price, the foreign exchange savings effect can have some very big movements. Furthermore as both are subject to violent swings in the international economy, optimism is not permissible.

Table 10-10-2 Foreign exchange savings effect (Basic case)

(Unit: mil. \$)

							TOTALL TITLE
s == 11	Exchange						Net foreign
Year	Savings   / import \	Imported	Interest on	Foreign	Payment		exchange
	subst.	raw materials	foreign loans	loan repayment	of foreign construction	Sub total	savings
				2.			
-5	0	0	0	-3	4	1	-1
-4	0	''0	0	-185	151	<del>-</del> 34	34
3	0	0	0 1	-179	126	-53	53
-2	0	0	0	406	330	-76	76
1	0	0	0	-293	177	-116	116
1	335	139	98	-54 112	54	349	-14
2	416	166	91	112		369	47
3	439	174	81	112		367	72
4	439	17,4		112		357	82
5	439	174	60 ,	112		346	93
6	439	174	50	112		336	103
7	214	85	. 40	112		237	-23
8	439	174	30	112		316	123
9	439	174	20	112		306	133
10	439	174	10	112		296	143
11	439	174	0	. 0		174	265
12	439	174	0	0	1.	174	265
13	439	174	0	0		174	265
14	214	85	0	0		85	129
15	439	174	0	0		174	265
Total	6,008	2 200	CC 1	0	0.40	0.700	0.000
TOTAL	0,006	2,389	551	0	842	3,782	2,226

Note: 1 Imported raw material and import substitution computed on C&F basis...

2 Interest during construction was added to foreign loans.

Payment foreign construction includes imported machinery and equipment, engineering fee, training. Operational guidance fee and operational spare parts.

### CHAPTER 10

# 10-11 Appendix - Preparation of balance sheet (Test calculation)

Up until the previous paragraph the balance sheet has not been touched upon. In this paragraph, based on the certain assumptions about the Basic case of the Project, the balance sheet has been prepared in a referential manner and a simple analysis carried out,

### 10-11-1 Supposed conditions for calculations of the balance sheet

The balance sheet shows the stock in the business activities of the enterprise. Accordingly it is necessary to establish supposed conditions of the calculation about how the previous term's profits will be disposed, carried over into this term, and whether it will be continued as stock in the current term.

In other words, business plans of the manager are necessary in relation to profit disposition. Here, although, as is summarized below a general plan has been adopted, thus we stress this is merely tentative establishment supposed conditions of the study. If the supposed conditions change, we wish to point out that the results will also change. Simply put, the test calculation is based on one assumption.

# Presumed conditions for calculation of the balance sheet (Summary)

### 1. Policy for disposition of profits

- 1) Regulation for legal retained earnings
  - 1-1) There is no legally set legal retained earnings. However, the accumulated legal retained earnings must not exceed 50% of equity.
  - 1-2) In this F/S, in order to strengthen the management basis, provisions are estimated;
    - i) Provision rate of legal retained earnings . . . . . . . 10% of dividends
    - ii) Limit on accumulation . . . . 50% of capital

### 2) Dividend policy

- 1-1) Provisionally the upper limit of rate of dividends is set at 50%.
- 1-2) Executive bonuses . . . . . not considered here.

#### 3) Carry over of profits into the next term

In order to stabilize administration, first preferentially a certain amount (8% of capital) is carried over.

#### Raising and applicating conditions of funds balance

### Funds deficiency (Bridge finance)

Interest 14% (Domestic city banks, secured, including 2% service charge)

Loan term Over year, rolled every year

#### 2) Funds surplus

Applications of surplus cash on hands and in banks . . . . fixed term deposit (7.5% interest)

(However, of this, the funds for use in the dividend reserve will be deposited in ordinary) deposits (interest 7%) for several months until the time for paying dividends

(Note 1) All interest rates used are the ceiling rates as set by the Philippines Central Bank.

(Note 2) Short term loans (the portion corresponding to net working capital) and current deposits (the portion with the minimum liquidity) shall remain on the same conditions as is. Which conditions were explained in 10-5-3 "Conditions of raising working capital."

# CHAPTER 10

# 10-11-2 Calculation Results (After inclusion of profit disposition)

When the continuous calculation is made including the profits disposition, the additional portion of financial profits based on the interest of the portion for the capital balance changes the income statement from the original (*Table 10-6-1*). Accordingly here, the EDP output of the 3 financial tables are shown in a harmonized manner with the balance sheet.

A comparative chart of profit-loss and funds between the financial forecast used in Chapter 10 Paragraph 6 and the financial forecast which includes the temporary forecast of profit disposition based on balance sheet is shown in *Table 10-11-1*. All told, it shows the following EDP output:

Table 10-11-2 Profit & loss statement

Table 10-11-3 Balance sheet

Table 10-11-4 Cash flow table

Table 10-11-1 Comparison of profit-loss and funds balance between before and after including tentative policy for profit disposition

(Unit: mil. \$)

	Financ	ial forecast before disposition*	re profit	After tentat di	tive policy of pro isposition	ofit	11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Year	Net profits after tax	Cash flow balance	Balance accumulated	Net profits after tax	Short term loans & deposits**	Devi- dend plan	Remarks
1	-10	-34	-34	-16	-40		
2	46	22	-12	44	-20	100	
3	62	38	26	61	17	17	
4	63	38	64	63	39	39	
5	69	45	109	71	47	47	
6	66	40	149	68	42	42	
7	<u>-40</u>	-105	44	<b>–47</b>	-111	1.00	
8	93	68	112	87	<b>–4</b> 9		
9	75	49	161	71	-3		
10	82	56	217	83	55	55	
.11	79	161	378	84	168	160	
12	79	161	539	86	178	160	
13	74	157	696	82	184	126	
14	-16	14	710	7	81	0	
15	74	370	1,080	86	469	72	

^{*} Data based on Table 10-9-1.

^{**} The short term loans and deposits are the portion corresponding to bridge finance, excluding short term loans and demand deposits, as raised as working capital in Chapter 10 section 5. Minus means the balance of short term loans.

Table 10-11-2 Profit & loss statement (Basic case after including tentative policy for profit disposition)

PROJECT : THE PHILIP	PPINES INTEG	(B) PRO RATED STEE	JECTED CIOUSE L.MILL PR	BOFIT & LOS	S L-F/S)			PAG TI	E= 2-1 E= JUL/13/1979	6761
CAL ENDAR YEAR PROJECT YEAR	0.1 0.1 0.1	1981	1.82 1.82 1.82	1983	1984	1985	1986	1987	1988	1989
SALES (***)		• H O H III III III				4.04.0	0675	0130	560130	
VARIABLE COST VARIABLE COST PRODUCTION & AMORIL (*1)		000	000	000	000	2039 6529 85299 85299	24 67 67 67 67 67 67 67 67	2 2 2 2 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	000 000 000 000 000 000	2 5 5 5 5 6 6 7 7 7 7 7 7 7 7 7 7 7 7 7 7
PROV. OF RESERVE FOR BE ETC. TAX ADJUSTMENT PRODUCTION COST FOR SALES		000		000		40W 0.07U 0.01W	400 070 000	400 400 400 600 600	9820 770	door
LONG TERM LOAN INTEREST INTER-	1000	000	600	1000	000		000000000000000000000000000000000000000	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0		840-1 840-1 840-1
SALES TAX GENERAL ADMINIST. EXPENSES TOTAL COST			0000	000	000	44 0 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	0 4 0 1 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0	7000 1000 1000 1000 1000 1000 1000 1000	7007 7007 7007	70 1 7M C
DPRATING INCOME	11. 1 11. 1		10 II 1 II 1 II	(1) *) (1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	11 O I	1101	1001		211.0 211.0 211.0 211.0 211.0 211.0	11001
NON-OPERATING FREEDINGS NON-OPERATING FREEDINGS ORDINARY INCOME		\$1	1000	1000	1000	0000	1000	1000	1110	
EXTRADROINARY PROFITS EXTRADROINARY LOSSES	# • • • # • # • # • # • # • # • # • # •	11 00 11 11 11	# 00 # # #	1100	000             	11 000 11 0 11 0 11 0 11 0		1100		
NET INCOME BEFORE TAXES	• If :: O II C II II II II		0 # 0	• 11 6 • 11 6 • 11 • 11 • 11 • 11 • 11 • 11	0 # C	NIIC	2 II Q 2 II Q 2 II Q 2 II Q	0 II C	97536 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
AXABLE TROOMED	11 11 11 11 11 11 11		1100	1 6 1 1 11 11	11 OC 11 OC 11	5802	10 II 20 II 10 II 10 II	93080	97336	1088
RESERVE FOR TAXES NET INCOME AFTER TAXES	00 00	00	001	001	001	100	401 401 401	6000 1000 1000 1000 1000	54067	480
PROV. OF LEG. RETAINED EARNINGS DISPOSABLE INCOME AFTER TAXES		100 () 1		1 1 11 1 11 11 11	1   14 	1001 101 101 101 101 111	1 6 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			1004 1004 1004 1004 1004 1004 1004 1004
**APPROPRIATION OF RET. EARN. **										
PETSPOSABLE INCOME AFTER TAXES TAXEDEREN SROUGHT FORWARD TAXEDEREN STOPPOST				. 000	000	15802		0.00 0.00 0.00 0.00 0.00	7023 7023 7023 7023 7023 7023	400 A
	# # # #	* II * O II O G	* II * 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	* II * O C II I	11 • 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1	• II • • • • • • • • • • • • • • • • •	11) 3 H 3 H	17005 17005	39117	# H V O O O O O O O O O O O O O O O O O O
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Table 10-11-3 Balance sheet (Basic case after including tentative policy for profit disposition)

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Table 10-11-4 Cash flow table (Basic case after including tentative policy for profit disposition)

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10-11-3 Yearly financial ratio analysis (Balance sheet analysis)

Table 10-11-5 shows the financial ratios definitions table.

The EDP output table of basic case (after including tentative policy for profit disposition) which is based on this definitions is shown on *Table 10-11-6* "Financial ratios." Besides, of these indicators, the following indicators, namely:

Fig. 10-11-1 Profitability ratio

Fig. 10-11-2 Effectivity ratio

are shown by graph.

Table 10-11-15 Financial ratios definition table

Deta No.  A Current profit ratio of total annual % liabilities & net worth  C Current profit ratio of net annual % worth  D Turnover of total times yearly liabilities & net worth  E Turnover of inventories times yearly liabilities and inventories times yearly liabilities and inventories times yearly  E Turnover of inventories times yearly  G Quick ratio  H Current ratio  A Fixed assets ratio of net worth & long term loans  K Debt ratio  L Net worth ratio  %  Net worth ratio  %  Net worth ratio  %  Net worth ratio  %	CHAPTE	२ 10				24,44	i
Data  Current profit ratio of total annual % Current profit ratio of net annual % Current profit ratio of net worth  D Turnover of total liabilities & net worth  E Turnover of inventories C Quick ratio H Current ratio  C Authority ratio of net annual % C Current profit ratio of net annual % C Current profit ratio of net worth  E Turnover of inventories C Quick ratio H Current ratio C Guick ratio H Current ratio C Duck ratio C Debt ratio C Duck ratio C Debt ratio C Debt ratio C Duck ratio C Debt ratio C Duck Ratio C Debt	The state of the s	Method of calculation	(Current profits/average of beginning and end term total Jiabilities & net worth) × 100 (Current profits/net sales) × 100 (Current profits/average beginning and end term net worth) × 100.	(Net sales/average beginning and end term total liabilities & net worth)  (Net sales/average beginning and end term fixed assets)  (Net sales /average beginning and end term inventories)	(Liquid assets/current liabilities) $\times$ 100 (Current assets/current liabilities) $\times$ 100	(Net fixed assets/equity) x 100 (Fixed assets/[equity + special reserves + fixed liabilities]) x 100	([Equity + special reserves] /total liabilities & net worth × 100
lndicator-ratio name No.  A Current profit ratio of tot liabilities & net worth  C Current profit ratio of neworth  C Current profit ratio of neworth  I Turnover of total  I Turnover of fixed assets  F Turnover of inventories  G Quick ratio  H Current ratio  H Current ratio  Fixed assets ratio  I Fixed assets ratio  S Debt ratio  L Net worth ratio	to the second	Unit		times yearly times yearly times yearly	% %	% %	% % %
	Tabi	Indicator-ratio name	Current profit ratio of total liabilities & net worth  Current profit ratio of sales  Current profit ratio of net worth	Turnover of total liabilities & net worth Turnover of fixed assets Turnover of inventories	Quick ratio Current ratio	Fixed assets ratio Fixed assets ratio of net worth & loans	Debt ratio Net worth ratio
		Data No.	∢ m U	о ш ш	ပ ፲		2 نـ ⊻
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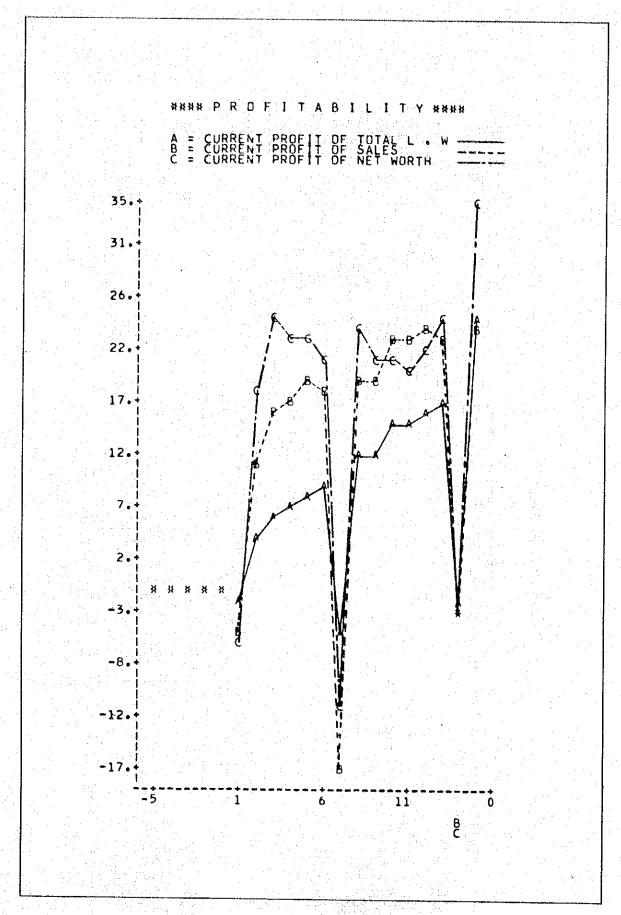


Fig. 10-11-1 Profitability

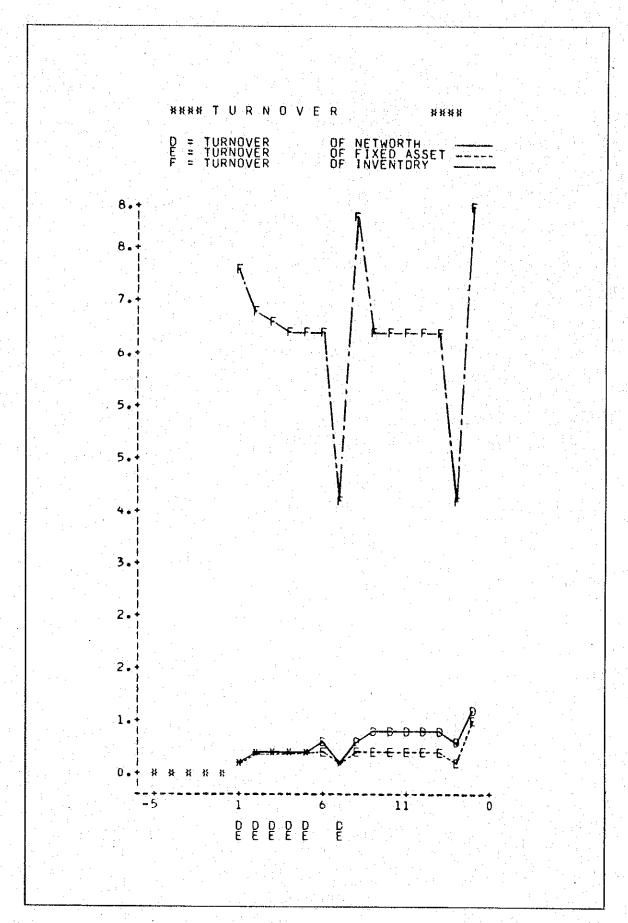


Fig. 10-11-2 Turn over