

(DCF Valuation Multiple)

I. Valuation

1. Valuation
2. valuation

II. VBM Valuation

1. VBM
2. 가 가 M&A

III. 가 가

1. 가 가
2. 가 가

IV. 가 가

1. NOA, IBD (1)
2. (2)
3. (DCF 3)
4. WACC (DCF 4)
5. EBITDA (Multiple 3)
6. Multiple (Multiple 4)
7. 가 (5)

V.

- [illegible]

VI. Case Study 1. (H)

1. NOA, IBD (1)
2. (2)
3. (DCF 3)
4. WACC (DCF 4)
5. EBITDA (Multiple 3)
6. Multiple (Multiple 4)
7. 가 (5)

VII. Case Study 2. (K)

1. NOA, IBD (1)
2. (2)
3. (DCF 3)
4. WACC (DCF 4)
5. EBITDA (Multiple 3)
6. Multiple (Multiple 4)
7. 가 (5)

VIII. Case Study 3.

1. NOA, IBD (1)
2. (2)
3. (DCF 3)
4. WACC (DCF 4)
5. EBITDA (Multiple 3)
6. Multiple (Multiple 4)
7. 가 (5)

IX. Case Study 4.

1. NOA, IBD (1)
2. (2)
3. (DCF 3)
4. WACC (DCF 4)
5. EBITDA (Multiple 3)
6. Multiple (Multiple 4)
7. 가 (5)

X. 가 가

1. DCF 가 가
2. Multiple 가 가
3. EBITDA Multiple
4. ROIC 가

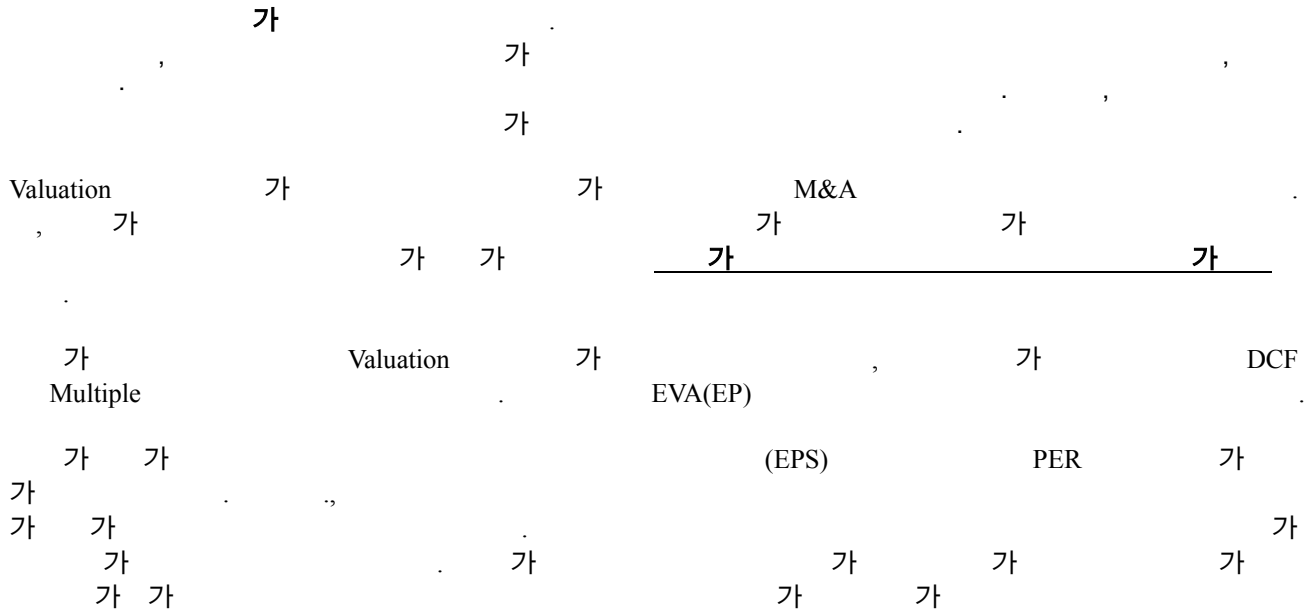
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1. *Valuation – Copeland* 著, 譯2. *Investment Valuation – Damodaran* 著3. *Security Analysis - Graham*4. - *Graham*

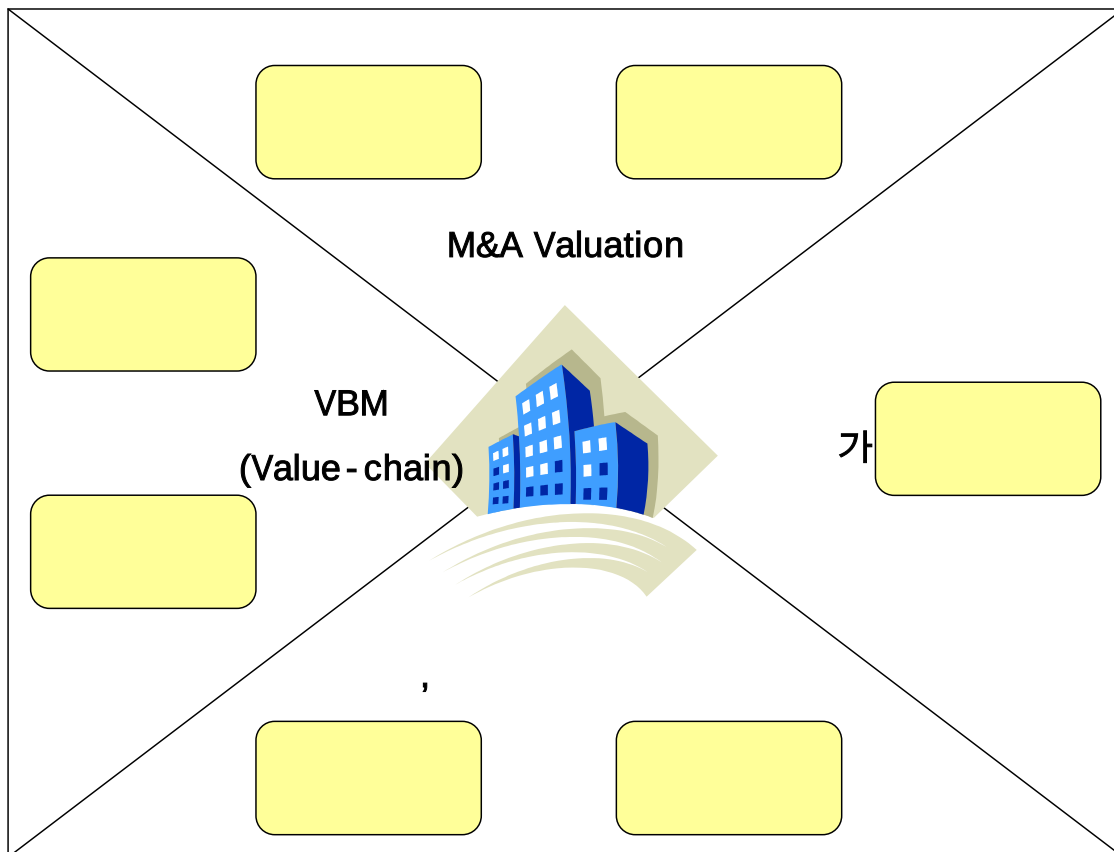
5. . ()

I. Valuation

1. Valuation



2. Valuation



II. VBM M&A Valuation

1. VBM

The diagram illustrates the relationship between Social Cost, Value, and Management. It is divided into three main sections: Social Cost, Value, and Management.

- Social Cost:** This section is on the left. It contains the text "(Social Cost)" and "가" (Ga).
- Value:** This section is in the center. It contains the text "(Value)" and "가" (Ga).
- Management:** This section is on the right. It contains the text "(management)" and "가" (Ga).

A central equation connects the sections: $\text{가} = \text{가}$ (Ga = Ga). Below this equation, the text "(VBM: Value Based Management)" is written.

2. 가 가 M&A
 M&A

[illegible]

3 : Buyer

Buyer _____,

(2) Buyer Valuation

2 : LOI (Buyer $\rightarrow$ Seller) 1

3 : (Non-Binding) MOU

4 : Preliminary Due Diligence(Data Room D.D) Valuation

5 : M&A

6 : Detail Due Diligence

7 : M&A

8 : M&A

. Due Diligence 가 가
 Due Diligence 가 가 가 가 가 가 가 가
 가 가 가 가 가 가 가 가
 가 , 가 가 가 .

3. 가 가

가 가 .

(1)

$\frac{PV(EPS, k)}{(1 + k)^t}$	가
--------------------------------	---

(2) PER

$\frac{EPS * PER}{(1 + k)^t}$	가
-------------------------------	---

, 가 .

가

가 , 가 가 , .

Valuation Summary

가 가

$\frac{\text{가}}{(\text{OV, TIC})}$	$\frac{\text{가}}{(\text{IBD})}$
$\frac{\text{가}}{(\text{NOA})}$	$\frac{\text{가}}{(\text{Equity Value})}$

M&A valuation

$$\left(\frac{\text{가}}{\text{가}} + \frac{\text{가}}{\text{가}} \right) = \frac{\text{가}}{\text{가}} = \left(\frac{\text{가}}{\text{가}} + \frac{\text{가}}{\text{가}} \right)$$

$$\frac{\text{가}}{\text{가}} = \frac{\text{가}}{\text{가}} + \frac{\text{가}}{\text{가}} - \frac{\text{가}}{\text{가}}$$

가 가 가 가 , 가
가 가 , 가 가 가 , DCF Multiple 가
EVA

1. DCF(Discounted Cash Flow,) : _____ 가

$$PV (FCF_n^1, WACC^2)$$

2. Multiple (,) _____ **가**

가

$$\text{EBITDA}^3 \quad * \quad \text{OV/EBITDA}^4 \quad \text{EV/EBITDA}$$

3. MVA (Market Value Added; 가가) :
$$\text{MVA} = \text{EVA} \times \frac{\text{IC}}{\text{가}}$$

$$\begin{aligned} \text{MVA} + \text{IC} &= \text{PV}(\text{EVAn}, \text{WACC}) + \text{IC} \\ &= \text{PV}(\text{NOPLATn} - \text{IC}_{(n-1)} * \text{WACC}, \text{WACC}) + \text{IC} \\ &= \text{PV}(\text{EBITn} * (1-t) - \text{IC}_{(n-1)} * \text{WACC}, \text{WACC}) + \text{IC} \end{aligned}$$

$$^1 \text{FCFn;} \quad \text{Free Cash Flow()}$$

$$= \quad + \quad (가) + \quad 가()$$

$$= \text{NOPLAT} + \text{IC}$$

² WACC ; Weighted Average Cost of Capital 가 , (hurdle rate)

³ EBITDA; EBIT()+D()+A()가,
$$\text{OV/EBITDA} = \frac{\text{가} + \text{가} - \text{가}}{\text{Multiple} \times \text{EBITDA}}$$

III. 가 가

1. 가 가

(1) 가 가 ()

$$\begin{array}{lcl} & \text{가} & = \text{가} * \\ \rightarrow & \text{가} & + \text{가} = \text{가} \\ \rightarrow & \text{가} & = \text{가} + \text{가} \end{array}$$

(2) “가 가” = “가 가”

가 , 가 가 가
가 가 가 .
가 가 가
가 가 가
가 가 가

(3) 가

[illegible]

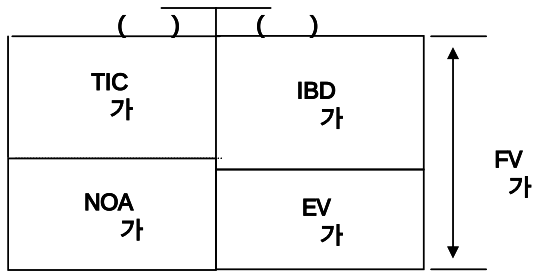
I.	1.	가	
	2.		
	3.	가	----
	4.		----
II.	(1)		
	1.		
	2.	가	----
	(2)		
	(3)		

I.	1.		
	2.		
	3.		----
II.	1.		
	2.		
	3.		----
I.			
II.			
III.			
IV.			

	=
가	
가	
	가 ,

가		가
가 (DCF)		
가	가	
		가
		가

가



◆ 가 (TIC : Total Invested Capital)

= Operating Value

= Value of Operations

= Operating Invested Capital

= Invested capital

◆ 가 (NOA : Non-Operating Asset)

◆ 가 , (IBD : Interest Bearing Debt)

◆ 가 , 가 (EV : Equity Value)

◆ 가 (FV : Firm Value)

$$\text{TIC} + \text{NOA} = \text{IBD} + \text{EV}$$

$$\text{가} + \text{가} = \text{가} + \text{가}$$

가 가

$$\text{EV} = \text{TIC} + \text{NOA} - \text{IBD}$$

$$\text{가} = \text{가} + \text{가} - \text{가}$$

가 가 () (Target Company)

가 가

, 가 가 가 가 DCF Multiple

DCF (Free Cash Flow) 가 (WACC) 가 (PV) 가 가
 , Multiple 가 가 (Index)
 (Comparable Companies) (Multiple) 가

DCF 가 Multiple , Multiple
 DCF , 가
 가 가

가	(TIC) =	TIC, Value of Operations = PV(FCFn, WACC)	가
		(FCFn) 가 (WACC)	

The diagram illustrates two methods for calculating Target Company Value:

- Index Method:**
 - Target Company Projection** (Input) leads to **Index** (Output).
 - Comparable Companies, Market, Historical Record** (Input) leads to **Equity Multiple** (Output).
 - The **Equity Multiple** is calculated as $\frac{\text{PER}}{\text{PSR, PBR}}$.
 - The **Index** is calculated as $\frac{\text{Earnings}}{\text{Sales, Book}}$.
 - The final calculation is: **Index** $\times$ **Equity Multiple** = **Target Company Price**.
- Multiple Method:**
 - Target Company Projection** (Input) leads to **Index** (Output).
 - Comparable Companies, Market, Historical Record** (Input) leads to **Enterprise Multiple** (Output).
 - The **Enterprise Multiple** is calculated as $\frac{\text{EV/EBITDA, TIC/EBITDA}}$.
 - The **Index** is calculated as $\frac{\text{Earnings}}{\text{Sales, Book}}$.
 - The final calculation is: **Index** $\times$ **Enterprise Multiple** = **Target Company Value**.

$\text{TIC} = \text{EBITDA} * \text{Market Multiple}$ $\text{가 (TIC)} = \text{EBITDA} * \text{TIC/EBITDA Multiple}$

⁵ EP = EE(Excess Earnings,) , EP = Excess Profit 가

FCF 가 IC WACC
 가 (ROIC) WACC IC
 EP 가 IC

DCF EP

$$\text{DCF} = \{ \text{NOPLAT}_1 - (\text{IC}_1 - \text{IC}_0) \} / (1 + \text{WACC})^1 \\ + \{ \text{NOPLAT}_2 - (\text{IC}_2 - \text{IC}_1) \} / (1 + \text{WACC})^2 + \dots \\ + \{ \text{NOPLAT}_n - (\text{IC}_n - \text{IC}_{n-1}) \} / (1 + \text{WACC})^n + \dots$$

$$\text{EP} = \text{IC}_0 + \text{EP}_1 / (1 + \text{WACC})^1 \\ + \text{EP}_2 / (1 + \text{WACC})^2 + \dots \\ + \text{EP}_n / (1 + \text{WACC})^n + \dots \\ = \text{IC}_0 + \{ \text{NOPLAT}_1 - \text{IC}_0 * \text{WACC} \} / (1 + \text{WACC})^1 \\ + \{ \text{NOPLAT}_2 - \text{IC}_1 * \text{WACC} \} / (1 + \text{WACC})^2 + \dots \\ + \{ \text{NOPLAT}_n - \text{IC}_{n-1} * \text{WACC} \} / (1 + \text{WACC})^n + \dots$$

$$\text{IC}_0 + \{ \text{NOPLAT}_1 - \text{IC}_0 * \text{WACC} \} / (1 + \text{WACC})^1 \\ = \{ \text{NOPLAT}_1 - \text{IC}_0 * \text{WACC} + \text{IC}_0 * (1 + \text{WACC})^1 \} / (1 + \text{WACC})^1 \\ = \{ \text{NOPLAT}_1 + \text{IC}_0 \} / (1 + \text{WACC})^1 \quad (\text{IC}_0) \\ = \{ \text{NOPLAT}_1 + \text{IC}_0 - \text{IC}_1 + \text{IC}_1 \} / (1 + \text{WACC})^1 \\ = \{ \text{NOPLAT}_1 + \text{IC}_0 - \text{IC}_1 \} / (1 + \text{WACC})^1 + \text{IC}_1 / (1 + \text{WACC})^1 \\ = \{ \text{NOPLAT}_1 - (\text{IC}_1 - \text{IC}_0) \} / (1 + \text{WACC})^1 + \text{IC}_1 / (1 + \text{WACC})^1$$

$$\text{EP} = \{ \text{NOPLAT}_1 - (\text{IC}_1 - \text{IC}_0) \} / (1 + \text{WACC})^1 \\ + \{ \text{NOPLAT}_2 - (\text{IC}_2 - \text{IC}_1) \} / (1 + \text{WACC})^2 + \dots \\ + \{ \text{NOPLAT}_n - (\text{IC}_n - \text{IC}_{n-1}) \} / (1 + \text{WACC})^n + \text{IC}_n / (1 + \text{WACC})^n + \dots$$

DCF

3. 가 가

(1) TIC : Total Invested Capital = OV, OA : Operating Value = Operating Invested Capital, Invested Capital 가
“ 가 ”

(2) IC⁶(Invested Capital: ,)

가 , DCF NOPLAT +
Free Cash Flow 가 TIC(가)
Multiple EBITDA Index multiple 가 .

IC(Invested Capital) 가 ,
가 .

IC , (+) 가
, (-) 가

,
(quasi-equity account) , IC

IC 가 가 가
10,000 10,000 가
10,000 (가) 가
가 (가)
IC 가 가 가
가 = 가 - max(가 , 가)
, IC 가

, 5

(, 가) , IC
, IC
M&A 가

(Operating current assets)
(-) (Non-interest bearing current liabilities)
(Net working capital)
(+) (Net property plant and equipment)
(+) - (Other operating assets, net of other liabilities)
IC (Invested Capital)

(3) NOA : Non Operating Asset 가 , (excess cash) 가 가

-
-
-
-
-
-

가

가

(, 가 , ,)

(Excess Cash) 가

가 , 0.5~2.0% , NOPLAT

가

가 가

가

NOA

가

가 가

= 가 (가)
(-) 가 가
(-)

가 가

= 가 - max(가 , 가)

가 가 WACC 가
가 가 WACC

가 가 WACC

가 (ROIC) WACC 가

가 가 가 가

가 ,

觸 -

(4) FV : Firm Value, Full Value 가 = TIC 가 + NOA 가
 EV : Enterprise Value 가 = 가 +
 = 가 + { - (가 가 + + 가) }
 , 가
 FV EV 가 , , 가
 , EV FV 가 , , 가
 가 TIC(가)
 가
 FV - 가 , , 가 = Enterprise Value
 Enterprise Value - = TIC(가)
 , Enterprise Value
 Enterprise Value 가 TIC(가)

(5) IBD : Interest Bearing Debt , 가
가 .

(6) EV : Equity Value

(7) FCF : Free Cash Flow

FCF

$$\text{FCF} = \text{NOLAT} - \text{FCF}$$
$$\begin{array}{ccccccc} = & & - & & - & & \text{가} + \\ - & & & + & & & \\ + & & \text{가} & & + & & \text{가} \\ & & & & & & \\ & & \text{가} & & & & . \end{array}$$

FCF

FCF

Free Cash Flow (A)		1990.12	1991.12	1992.12	1993.12	1994.12	1995.12	1996.12	1997.12	1998.12	1999.12	2000.12	2001.12	2002.03
	가	1,583,949	5,885,233	15,486,785	20,252,810	32,313,689	38,249,223	47,032,515	56,899,831	26,994,717	20,947,224	36,365,255	38,905,613	10,364,495
		796,220	1,084,812	822,047	1,199,483	899,084	992,568	3,195,982	58,886,249	23,480,410	41,775,734	16,558,421	29,125,415	2,065,676
	EBIT	787,729	4,800,420	14,634,738	19,053,327	31,232,605	37,256,655	43,836,533	-2,086,418	3,514,307	-20,828,510	20,006,834	9,780,198	8,298,819
	()	606,346	424,854	2,055,884	1,932,695	1,448,693	5,009,034	4,836,670	0	0	0	0	0	0
		21,88	14,35	27,88	19,43	23,98	25,79	23,34	0	0	0	0	0	0
		828,798	1,548,708	4,914,456	3,699,468	5,550,710	8,268,334	9,096,044	0	0	0	0	0	0
		1,264,890	1,275,339	2,890,453	1,913,241	2,234,177	3,676,366	3,464,057	0	0	0	0	0	0
	가	170,254	698,223	4,079,867	3,718,923	7,465,227	9,601,003	10,248,857	0	0	0	0	0	0
		0	0	0	0	0	0	0	0	0	0	0	0	0
	NOPLAT	617,475	4,102,187	10,554,871	15,334,404	27,677,378	27,855,652	33,587,676	-2,086,418	3,514,307	-20,828,510	20,006,834	9,780,198	8,298,819
		828,905	1,361,169	1,766,240	2,080,359	2,560,376	3,011,096	5,983,354	5,017,448	4,344,200	7,254,078	6,937,439	4,651,239	992,780
		796,220	1,084,812	822,047	1,199,483	899,084	992,568	3,195,982	58,886,249	23,480,410	41,775,734	16,558,421	29,125,415	2,065,676
	가	2,942,600	6,548,176	13,143,156	18,614,246	27,206,838	31,659,316	42,767,012	61,917,277	32,428,917	28,201,302	42,762,694	43,595,852	11,357,275
		7,155,448	12,960,648	35,250,157	17,878,692	24,292,968	30,263,175	14,687,914	104,150,804	62,412,864	-138,901,034	20,413,791	23,300,396	985,586
	가		3,341,567	2,269,731	6,106,527	4,304,404	10,094,822	38,073,983	5,084,813	5,993,478	157,042,244	-9,729,269	-300,067	653,546
			603,692	108,826	-127,028	227,741	49,061	486,994	1,325,758	-1,971,830	323,651	-446,475	-593,448	204,687
	가		-72,639	-308,572	511,220	-466,954	-396,025	-72,937	3,818,174	-25,912,279	-1,475,626	0	0	0
		16,833,268	37,319,142	20,873,411	28,358,159	40,011,033	53,176,954	114,379,549	63,315,503	16,889,235	10,238,047	22,406,887	21,448,971	1,843,819
	Free Cash Flow	-10,285,090	24,175,984	-2,629,165	-1,151,321	-9,351,717	-10,408,942	-52,462,272	-30,886,586	11,212,067	32,546,047	11,219,971	9,515,456	
		4,814,493	8,725,276	8,604,416	8,448,487	6,979,216	12,042,776	14,097,554	43,209,321	37,153,229	17,552,539	27,760,686	37,384,765	3,356,941
		298,107	1,113,900	1,128,910	512,830	1,697,286	2,171,463	495,365	31,502,962	68,774,365	17,695,365	11,204,941	15,993,271	2,501,289
	0	86,051	0	2,339	150,040	33,895	5,872	113,535	28,261	8,706	127,313,544	4,201,776	1,076,733	0
		9,568	21,168	5,553	59,258	137,878	33,154	33,306	0	393,857,207	456,349,489	5,926,926	50	0
		4,506,817	-2,608,829	-16,703,690	5,767,275	5,826,626	2,200,312	1,050,852	-40,727,652	-456,356,212	-31,966,694	20,955,246	43,618,140	10,369,100

) A 1 , 1 (FCF)

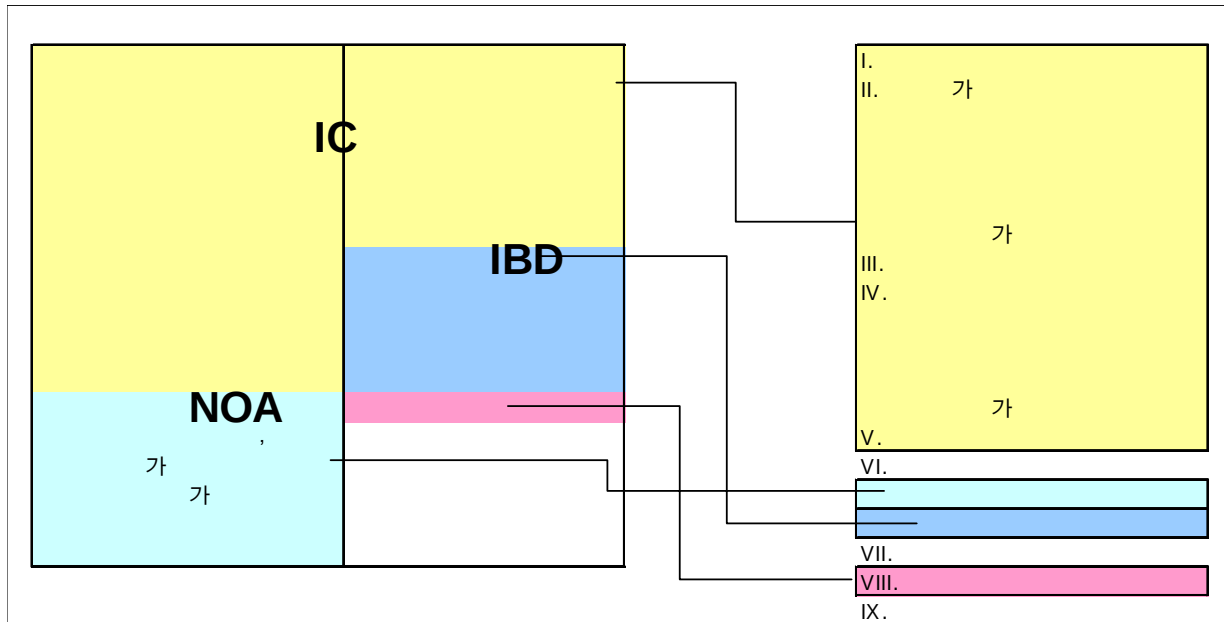
	<	>	(:)
	1		
	100	130	+30
	100	120	+20
	100	120	+20
	100	80	-20
	400	450	+50
	100	130	+30
	100	80	-20
	50	60	+10
	250	270	+20
	100	100	0
	50	80	+30
	150	180	+30

	<	>	(:)
	1		
	150		
가	90	가 : 5 : 5	
	60		
	19	가 : 6, : 7	
	41		
	3		
	38		
	8	: 21% ()	
	30		

: 34, : 3, : 2

NOPLAT	32.39	* (1-) 41 * (1-0.21) = 32.39
(가)	(20)	
(가)	(20)	● , (34) ● 3 ● 가 11
가()	30	
가()	10	● , 12 ● (2)
	32.39	

< 가 >



$$\text{(Cash Flow)} = \text{IC} - \text{NOA} + \text{IBD} + \text{NOA} \quad ()$$

			(가 ,)		
			()		
= NOPLAT			* (1-t)		
- IC			- NOA()		
			+ IBD		
			+ ()		
			가 ,		
			(FCF)		

가

() IC

(~) IC

(8) EBIT : Earnings Before Interest and Taxes

(9) EBITDA : Earnings Before Interest, Taxes, Depreciation and Amortization

+ 가 +

(10) Multiple

PER, PSR, PBR Equity Multiple
 EV/EBITDA, TIC/EBITDA Enterprise Multiple
 Multiple

(11) NOPLAT : Net Operating Profit Less Adjusted Taxes

NOPLAT

. NOPLAT

● NOPLAT

NOPLAT = EBIT * (1-t)

NOPLAT EBIT EBIT 가

● NOPLAT NOPLAT

NOPLAT

NOPLAT

(+)
 (-)
 = NOPLAT

EBIT NOPLAT EBIT EBIT

M&A

EBIT

IC

가

EBIT

가

(12) WACC : Weighted Average Cost of Capital 가 ()

가 (WACC) 가 WACC 가

WACC

$$WACC = k_b (1 - t) \frac{B}{V} + k_p \frac{P}{V} + k_e \frac{E}{V}$$

k_b =

k_p =

k_e =

WACC

WACC

DCF

가 = PV(FCFn, WACC)

Multiple

가 = EBITDA * EBITDA Multiple

가 , PV(FCFn, WACC) = EBITDA * EBITDA Multiple
 , FCF 가 , 가 1/WACC 가

EBITDA Multiple 6 ~ 6.5 ,
 FCF = NOPLAT + , 가 , EBITDA
 FCF , EBITDA * 0.7 = FCF 가

가 = FCF / WACC = EBITDA * EBITDA Multiple = (FCF / 0.7) * EBITDA Multiple ,
 , FCF = EBITDA , EBITDA Multiple 6 ~ 6.5 ,
 WACC = 0.7 / (6~6.5) = 10.8% ~ 11.7% 가
 , 가 , 15.38% ~
 16.7% 가 WACC 가
 10~12% 가 15.38% ~ 16.7% WACC
 WACC ,
 . [Operating Leverage]

(13) CV : Continuing Value 가 , 가

DCF 가

가

forecasting period) , 가 , (explicit
 가 CV 가

(14) ROIC : Return On Invested capital

$$= \text{NOPLAT} / \text{IC}_{(n-1)}$$

IC

ROIC 가
가 IC

NOPLAT IC

NOPLAT

ROIC

ROIC

ROE

ROIA

ROE

, ROA
가

ROIC

ROIC tree

ROIC

ROIC

가

ROIC

$$\text{ROIC} = \text{NOPLAT} / \text{IC}$$

$$\text{NOPLAT} = \text{EBIT} \times (1 - \text{tax rate})$$

$$\text{ROIC} = \text{EBIT} \times (1 - \text{tax rate}) / \text{IC}$$

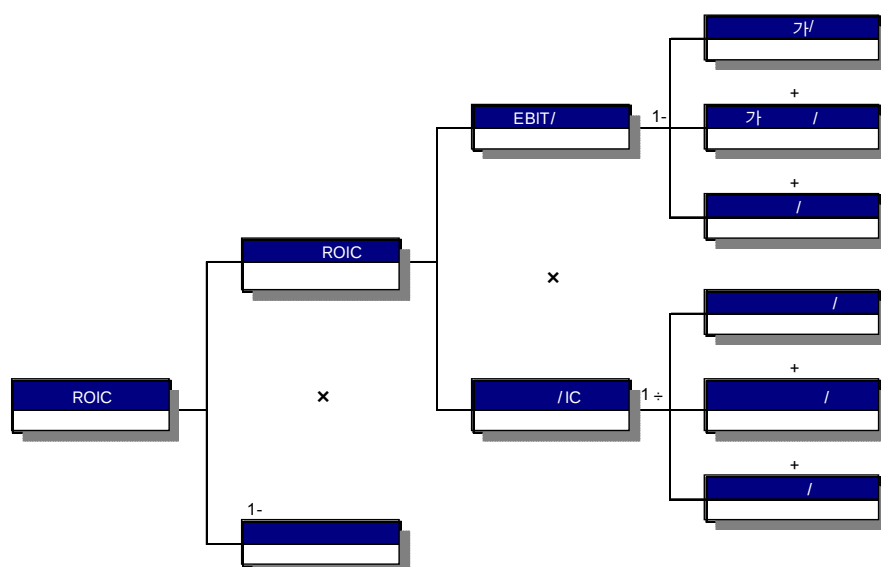
EBIT IC

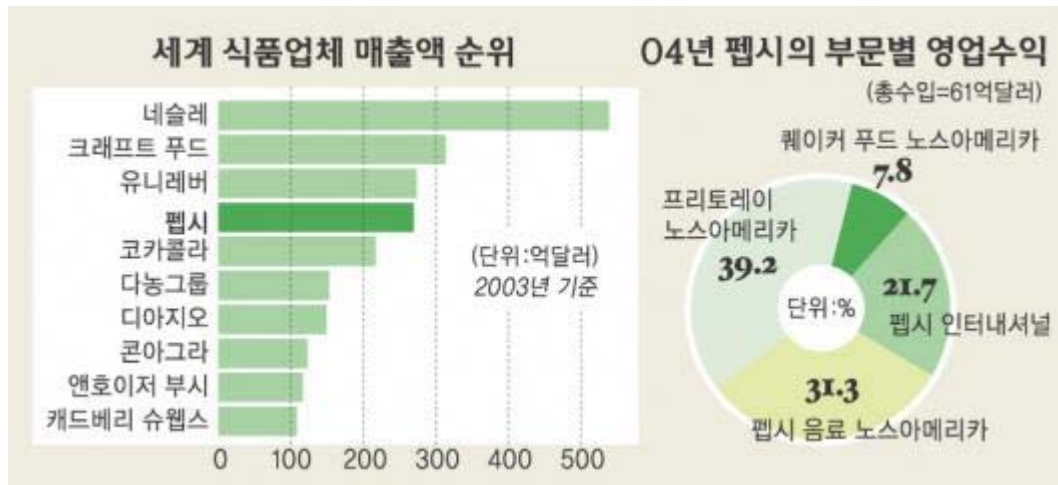
$$\text{ROIC} = \text{EBIT} \times (1 - \text{tax rate}) / \text{IC} = (\text{EBIT} / \text{Sales}) \times (\text{Sales} / \text{IC}) \times (1 - \text{tax rate})$$

, ROIC
(EBIT/Sales:)
가

IC (Sales / IC)

IC





[] ‘ 가 .’
 96 ‘ 가 .’
 가 .”
 8 가 2
 , 가 18% 3 290 220 30%
 ●
 .2001
 “ 가
 ”
 ‘ , 가
 .
 82% , 28%
 80% . 가

ROIC
WACC

가 30% ROIC 가

1990 ROIC 가

가 가

ROIC

(ROIC 가),

(15) t 1 15%, 1 27%
 10% 1
 가 27% 2.7% 가 29.7%
 2005 1 13%, 1
 25% 27.5%
 가
 DCF , 100
 A 30% 30 20 5
 가 10 10%가
 (4) 5
 가 5
 , 2001 2003

	2001	2002	2003
	29.42%	28.50%	28.12%
	2.43%	-0.64%	-4.01%
	42.78%	59.65%	51.14%

가 가
 5% 가 1.5%
 가 가

< 1. FCF > A 1 , 1
 (FCF) ?
 , 가 가 200 , 가 ?

< > (:)

		1	
	100	130	
	100	120	
	100	120	
	100	100	
	400	470	
	100	130	
	100	102	
	50	60	
	250	292	
	100	100	100
	50	78	
	150	178	

< > (:)

	1	
	200	
가	120	가 : 5 : 5
	80	
	30	가 : 6, : 7
	50	
	-10	
	40	
	12	: 30% ()
	28	

: 34, : 3, : 2

NOPLAT		*(1-)
(가)		
(가)		● , ● ● 가
가()		
가()		● , ●

IV. 가 가

DCF	Multiple
1. F/S , NOA, IBD	
NOA IBD	
2.	
(EBIT) (, , ,) (, , 가)	
3. FCF Projection = ± , (가) ± 가()	3. EBITDA Projection () = + 가
4. WACC CAPM 가 WACC	4. Multiple 가 , IBD, NOA TIC EBITDA TIC/EBITDA Multiple
5. 가 =Operating Value of Projection Period (+) Continuing Value	5. 가 =EBITDA * Multiple
6. NOA가 , IBD 가 + 가 = 가 (FV) 가 - = 가 (Equity Value)	6. NOA가 , IBD 가 + 가 = 가 (FV) 가 - = 가 (Equity Value)
7. Equity Value 가 - 가 = 가 가 ÷ = 가 (EVPS)	7. Equity Value 가 - 가 = 가 가 ÷ = 가 (EVPS)

1. NOA, IBD (1)

(1)

- 가 : IC ROIC
 : NOA
 : IBD
 :
 :
 가 , 가 , 가 , 가 가 가 가

(2) NOA, IBD

가
가

가

가
가

99%

, 100%

가가

$$\vdots$$

가 가

가

가

가

가

가

가

2

$$\vdots$$

가

가

가

가

가

가

가



가

가

가

가

2. (2)

- (1) (EBIT) - .
 • , , , , 가 가
 가 , , 가
 • 가/ 가 - 가
 가
 :
 :
 가
 :
 가 가
 • 가
 가
 :
 :
 가 가
 :
 :
 가 가

(2) (, ,)

-
-
-

(3)

- 가 - (가 + /2) * + + /2) *
- - (가 - 가 /2) * + + /2) *
- 가
- 가

(4)

- 가 .

3. (FCF) (DCF 3)

Free Cash Flow ()	2002.12 (Latest)	2003.12	Description
	142,897,691	183,955,203	
가	40,179,457	10	가 EBIT
	-	-	EBIT
EBIT	102,718,234	183,955,193	
	26,317,068	59,271,827	
()	33.7	30.8	
	2,333,704	131,535	*
-	5,918,969	2,745,163	(-) (가 ,)*
	34,569,741	56,658,199	
가	-	-	가
NOPLAT	68,148,493	127,296,994	EBIT - 가 ± (가)
가	40,333,264	32,519,563	
가	40,179,457	10	
	148,661,214	159,816,566	NOPLAT + , 가 ,
가	57,130,254	217,581,810	
가	9,054,252	5,706,232	
가	- 659,577	4,315,782	
가	-	-	
	65,524,929	216,191,360	
Free Cash Flow	83,136,285	376,007,927	-

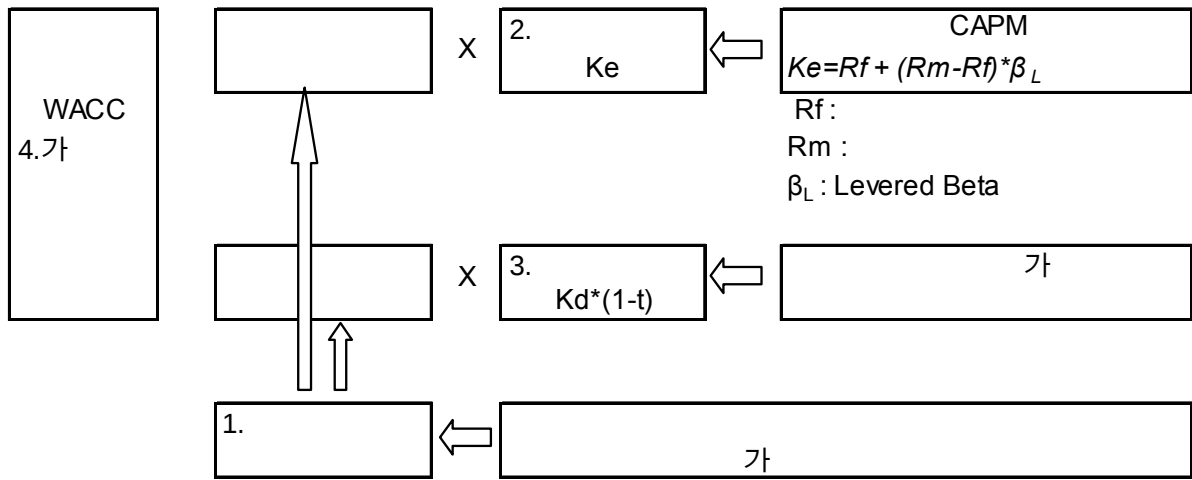
NOPLAT EBIT * (1-t) .⁷

FCF NOPLAT , IC . NOPLAT
가 가
가 . FCF

$$\begin{aligned}
 \text{FCF} &= \text{NOPLAT} - \\
 &= (\text{NOPLAT} + \text{가}) - (\text{가} + \text{가}) \\
 &= -
 \end{aligned}$$

⁷ 가 IC 가 가 EBIT
 , 가
 ,
 - : 가
 , EBIT + 가
 - : 가(가) 가
 WACC 가

4. WACC (DCF 4)



STEP 1 : 가

(1)

WACC
 가 WACC
 ,
 bias 가 가
 , WACC
 가
 , WACC
 가
 ,
 가 , 가 가
 bias

(2)



3
 가
 가
 ,

STEP 2 :

The Capital Asset Pricing Model

CAPM

$$K_e = r_f + [E(r_m) - r_f] \beta_L$$

CAPM

 r_f

(1)

10

T-bond

3

3

3

4.5%

(2)

1)

2)

3)

4)

5)

25%

30%

,

, 1% Emerging Market Risk Premium

가

가

가

1999

Ibbotson Associates

1926 ~1998

5.9%

Emerging Market Risk Premium 1%

6.9%

WACC CAPM

Emerging Market Risk

(3)

(β)

1)

2)

i)

ii)

iii)

가

가

가 0.2

가

가

가

,

가 0.2

STEP 3 :

가
가

STEP 4 : 가 (WACC)

WACC

$$WACC = k_b (1-t) \frac{B}{V} + k_p \frac{P}{V} + k_e \frac{E}{V}$$

$$k_b =$$

$$k_p =$$

$$k_e =$$

5. EBITDA (Multiple 3)

= + 가

FCF

, EBITDA 가 가

6. Multiple (Multiple 4)

(1) Comparable Companies

	1	2	3	4	5
가					
(+)					
= 가					
(-)					
= 가					
/EBITDA					
TIC/EBITDA					

가 , , EBITDA 가

가 : 가

EBITDA : , :

TIC/EBITDA 가 , Multiple

(2) Market

(“Earnings Guide”) Multiple 가 , Multiple ,
 EV/EBITDA 가 , Multiple
 , TIC/EBITDA Multiple

(3) Historical Record

가 Multiple(Multiple) 가 , (가
 가) , 가
 Multiple Multiple
 가 Multiple
 가 Multiple

7. 가 (5)

(1) 가

1) DCF

FCF 가 + 가 (CV) 가 = 가

Present Value of Projection Period (FCF 가) =

$$\frac{FCF1}{(1+WACC)^{(1-\frac{m}{12})}} + \frac{FCF2}{(1+WACC)^{(2-\frac{m}{12})}} + \frac{FCF3}{(1+WACC)^{(3-\frac{m}{12})}} + \frac{FCF4}{(1+WACC)^{(4-\frac{m}{12})}} + \frac{FCF5}{(1+WACC)^{(5-\frac{m}{12})}}$$

Present Value of Continuing Value(가 (CV) 가) =

$$\frac{FCF5}{WACC - r} \times \frac{1}{(1+WACC)^{(5-\frac{m}{12})}}$$

r FCF 가

2) Market Multiple

5. EBITDA * Market Multiple = 가

3) Historical Multiple

5. EBITDA * Market Multiple = 가

(2) 가

(:)

	DCF	Market Multiple	Historical Multiple
1. 가 : TIC			
2. 가 : NOA			
3. 가 (1+2) : FV			

(3) 가

(:)

	DCF	Market Multiple	Historical Multiple
1. 가 : FV			
2. 가 : IBD			
3. 가 (1-2) : EV			
4.			
5. 가 (3÷4)			

V.

1. 가 가 가
 가 가 가
 가 가

1. 가	(:)
가	89,541
가	225,958
가	171,391

$$) \quad \text{가} = (\quad \text{가} \times 1 + \quad \text{가} \times 1.5) \div 2.5$$

2. 가			
		1 (2003)	2 (2004)
. 가		624,953,557	
1.			-
2.			
3.			
4.	가		
. 가		8,638,092	
1.		-	
2.	가	8,638,092	
3.		-	
4.	가	-	
5.	가	-	
6.		-	
7.		-	
8.		-	
9.		-	
. (+ -)		616,315,465	
. 가 () (/)		6,883,087	
1.		6,883,087	
2.		-	
3.		-	
4.		-	
. 1 가 () (/)		89,541	

3. 가			
		1 (2003)	2 ()
1.		192,440,998	167,12
2.			
3.	(1 + 2)	192,440,998	167,126
4.		59,258,627	51,46
5.	(3 - 4)	133,182,370	115,66
6.		6,883,087	6,883
7. 1	(5 / 6)	19,349.22	16.8
8. 가		1	
9. 1		18,077	
10.		8.00%	
11. 1	가 (9 / 10)	225,958	

1. 가 1, 2, 3, 2, 1, 1.5, 2

2. Multiple

	EPS ()	PER ()	EVEBITDA ()	PBR ()	PEG ()	PCR ()	ROE (%)	ROIC (%)	(%)	()
2001	1,549	13.2	6.0	0.8	0.3	3.8	5.8	7.7	122.5	2.8
2002	2,905	7.1	5.4	0.7	0.3	3.5	10.4	8.7	110.2	4.4
2001	6,815	N/A	23.4	3.1	N/A	18.5	9.3	-	48.7	N/A
2002	9,708	29.2	11.1	3.4	0.5	12.1	13.0	29.6	39.8	N/A
2001	5,942	38.0	23.9	3.1	N/A	21.5	8.7	13.2	22.8	N/A
2002	76	744.4	13.2	1.3	2.6	9.6	0.2	1.4	16.2	N/A
2001	4,923	7.8	4.7	1.0	1.4	4.4	12.8	14.5	79.8	7.0
2002	5,455	5.9	3.7	0.8	0.6	3.8	13.1	15.8	72.0	9.8
2001	5,232	4.8	1.9	0.3	0.1	1.4	5.8	12.7	39.6	9.1
2002	8,419	3.7	1.3	0.3	0.2	1.5	9.1	19.4	30.2	33.5

< : LG 2004 3 >

(1) EPS (Earnings Per Share) :

$$= \{ \dots - \dots + \dots * (1 - \dots) \}$$

(2) PER (Price Earnings Ratio) :

Price Earnings Ratio) :		가/ EPS	
EPS	PER	Target company	가
Step1. Target company			PER
Step2. Target company	EPS	.	
= {	-	+	*(1-
/ 가			)}
Step3. Target company	EPS		PER
= Target company	EPS *		PER(Price/Earnings)
= Target company		가	

(3) EV⁸/EBITDA: (가 +)/(+)

EV/EBITDA	Target company	가
Step1. Target company		EV/EBITDA
Step2. Target company	EBITDA	
=	+	
Step3. Target company	EBITDA	EV/EBITDA
= Target company	EBITDA *	EV/EBITDA
= Target company	EV	
Step4. Target company	EV	Target company
= Target company	EV - Target company	
= Target company	가	
Step4. Target company	가	Target company
가		Target company
= Target company	가 / Target company	
= Target company	가	

(4) PBR : 가 / 가 (BPS:Book value Per Share)

PBR(PriceBook-valueRatio) 가 가 1

(PBR= 74/1)

[illegible]

PBR 가
 PBR 1 가가 1 가
 PBR 1 가 , 1 가
 가 가
 PBR (-) , PBR 0 가 (+) 가
 가

(5) PEG (PER-EPS Growth) : PER/EPS (3)

PEG PER
 PEG 가 PER 가
 PER 가 PEG PER 가

PER / (1+EPS)

(6) PCR : 가/ (CFPS: Cash Flow Per Share)

(7) ROE : /{(+)/2} * 100

(8) ROIC : / * 100

(9) : / * 100

(10) ⁹ : /

(11) : -(가 + + 가)

() H
 가 , = 1,000
 = 1,500

EBITDA = 1,900
 = 0
 = 6,883,087

EV/EBITDA = 1.3

EV/EBITDA Multiple , 가

EV/EBITDA * EBITDA = 1.3 * 1,900 = 2,470 (H EV)
 EV= FV- cashes = (IBD + Equity Value) – cashes

Equity Value = EV – IBD + cashes = 2,470 – 0 + 1,000 = 3,470

가 = 3,470 / 6,883,087 = 50,413

⁹ “ ”
 , “ ”
 / () “ ”
 , “ ?”

VI. Case Study 1. (H)

1. NOA, IBD (1)

(1)

Balance Sheet (,%)	1997.12	1998.12	1999.12	2000.12	2001.12	2002.12	2003.09
가	49,611,560	32,292,544	5,703,299	25,049,599	15,502,066	53,083,778	93,685,808
가	7,280,472	20,795,619	54,935,745	5,896,807	9,451,391	9,438,470	11,588,534
	146,786,790	105,390,040	93,916,699	140,223,324	122,391,151	151,301,356	155,979,628
	12,807,104	14,833,944	7,059,394	7,612,618	5,170,873	4,367,549	4,279,140
	28,679,836	28,292,949	24,562,479	25,859,326	21,867,600	23,583,592	28,783,573
	245,165,762	201,605,096	186,177,616	204,641,674	174,383,081	241,774,745	294,316,683
	102,510,783	124,528,936	111,797,729	100,559,869	139,784,878	123,421,344	144,159,647
가	333,799,427	552,868,656	521,568,144	485,909,949	462,004,350	431,580,450	415,273,653
*	131,239,531	175,698,021	177,041,439	177,981,571	177,956,827	178,399,121	178,390,272
	18,686,517	11,903,769	16,079,194	21,937,516	6,297,089	5,441,977	6,157,060
	9,092,604	14,664,618	13,566,937	10,954,646	9,297,669	8,638,092	9,849,057
	10,176,504	942,906	0	0	0	0	0
	474,265,835	704,908,885	663,012,004	619,361,980	617,383,986	569,081,863	575,439,417
	719,431,597	906,513,981	849,189,620	824,003,654	791,767,067	810,856,608	869,756,100
	59,959,447	34,763,123	39,279,438	46,840,027	45,093,687	55,316,793	52,201,714
	70,911,022	46,985,000	16,700,000	0	0	0	0
	33,634,670	14,914,417	14,506,204	12,727,928	9,010,101	8,361,577	0
	10,000,000	30,010,000	45,010,000	35,000,000	21,220,130	49,690,772	0
	45,910,868	34,809,725	35,840,650	44,758,231	42,165,318	45,977,615	93,663,008
	220,416,007	161,482,265	151,336,292	139,326,186	117,489,236	159,346,757	145,864,722
	45,901,402	131,169,222	113,675,027	101,538,399	73,547,945	0	0
	86,077,004	53,638,984	36,859,059	35,819,624	20,252,082	16,852,188	6,446,215
	59,804,155	26,452,300	6,021,719	4,988,609	4,145,889	3,115,772	4,753,921
	8,019,842	7,756,887	6,826,557	7,018,663	6,721,542	6,588,332	6,601,427
	199,802,403	219,017,393	163,382,362	149,365,295	104,667,458	26,556,292	17,801,563
	0	0	0	0	0	0	0
	420,218,410	380,499,658	314,718,654	288,691,482	222,156,695	185,903,050	163,666,286
	25,114,655	31,664,035	31,664,035	31,664,035	31,664,035	34,415,435	34,415,435
	0	0	0	0	0	0	0
	142,401,259	358,693,235	358,340,320	358,340,320	358,340,320	365,281,136	365,281,136
	127,941,435	132,130,255	142,240,672	158,888,729	185,712,094	230,503,510	310,036,378
	3,755,838	3,526,798	2,225,939	-13,580,913	-6,106,076	-5,246,524	-3,643,136
	299,213,187	526,014,323	534,470,966	535,312,171	569,610,373	624,953,557	706,089,813
OK	OK	OK		1	-1	1	1

Income Statement (,%)	1997.12	1998.12	1999.12	2000.12	2001.12	2002.12	2003.09
가	479,180,386	374,229,283	383,730,781	417,553,063	484,913,438	566,639,501	443,312,794
	364,851,476	284,122,512	271,342,641	295,237,590	340,536,091	372,177,950	278,276,000
	114,328,910	90,106,771	112,388,140	122,315,473	144,377,347	194,461,551	165,036,794
	65,333,321	54,732,837	61,931,518	43,429,860	49,442,535	51,563,860	46,787,806
	48,995,589	35,373,934	50,456,622	78,885,613	94,934,812	142,897,691	118,248,988
	14,564,376	18,434,850	19,090,776	13,760,908	11,929,761	8,203,530	8,434,073
가	24,766,450	40,865,393	29,288,263	17,780,732	15,042,524	6,934,213	3,502,823
	13,017,987	809,621	3,589,206	25,061,617	38,472,511	40,179,457	10
	10,887,826	2,088,483	12,921,229	19,992,404	4,910,080	25,790,761	1,016,610
	14,887,702	10,045,287	23,748,700	29,811,768	48,439,458	78,196,790	122,163,618
	0	615,469	0	0	0	0	0
	100,523	1,716,019	0	0	0	0	0
	14,787,179	8,944,737	23,748,700	29,811,768	48,439,458	78,196,790	122,163,618
	4,384,795	2,491,973	7,647,598	9,350,984	18,658,198	26,317,068	36,338,636
	10,402,384	6,452,764	16,101,102	20,460,784	29,781,260	51,879,722	85,824,982

(2) NOA, IBD

가	93,685,808
가	11,588,534
	144,159,647
	249,433,989
	0
	0
	0
	0
	6,446,215
가	6,446,215

2.

(2)

(1) Forecasting

2004년 시멘트 내수 증가율 둔화되나 줄하증가 국면 지속

2004년 4.2%의 시멘트
내수 증가율과 더불어 사상
최대 이익 갱신 지속
양여현금의 활용도에 따라
주가 탄력성 부여

2003년 10월 누계 기준 시멘트 내수는 전년동기 대비 7.0% 증가한 4,762만톤으로 추산된다. 이는 BT사업 등 건축부문 호조, 3Q중 수송지연 이후 본격적인 수요 시즌 도래, 동결기 이전 콘크리트 타설 증가 등이 요인이다. 동추이를 고려할 시 2003년 시멘트 내수 증가율은 전년대비 5.9%증가할 것으로 보인다. 반면, 2004년 시멘트 내수 증가율은 건축부문 출하 감소로 금년대비 4.2%수준으로 보아 다소 둔화될 것이나 줄하증가 국면은 지속될 것이다. 외국투자자들은 이미 시멘트 내수증가세 지속, 각사들의 Earnings Momentum 부각 등에 따라 2003년 4분기이후 지분을 확대시키고 있다. 2003년 포항시멘트는 56~58선에서 인상되어 2004년 Bulk 시멘트의 단가인상 가능성이 조심스레 예견되는 국면이나 속단하기에는 다소 이른 감이 있다. 유연탄 가격 약보합세, 감가상각비 축소 등에 따른 평가율 안정으로 2003년~2004년중 각 시멘트사들은 사상최대 이익의 갱신 행진을 지속할 것이다.

시멘트 내수 증가율 추이



자료) 양회협회, LG투자증권 리서치센터

건설관련 지표와 시멘트, 레미콘 동향

	1999	2000	2001	2002	2003E	2004F
실질GDP 증가율(%)	10.9	9.3	3.1	6.3	2.7	4.6
허가면적 증가율(%)	46.3	11.8	26.6	42.0	1.7	-5.1
건설수주 증가율(%)	6.8	17.6	12.8	22.6	16.3	-11.5
건설투자 증가율(%)	-10.3	-4.1	5.3	3.3	6.0	4.0

시멘트내수(천톤)	44,721	48,006	50,956	54,293	57,503	59,918
시멘트내수 증가율(%)	0.3	7.3	4.3	6.5	5.9	4.2
시멘트 내수단가(원/톤)	56,464	56,395	60,949	62,856	64,652	64,652
레이콘내수(천cc)	95,974	106,081	119,230	137,172	144,511	156,725
레이콘내수 증가율(%)	-0.1	13.7	9.3	15.0	5.4	8.3
레이콘 내수단가(cc/원)	42,620	41,923	45,501	48,322	51,118	51,118

자료) 양회협회, 레미콘협회, LG투자증권 리서치센터

시멘트사 외국인 지분을 주어



자료: Datastream

연도별 시멘트 단가 인상 추이

(원/톤)	Package	단가인상률	Bulk	단가인상률	비고
92년2월6일	48,675		40,294		
96년2월20일	51,550	5.9%	49,044	5.9%	
97년1월20일	54,600	5.9%	51,959	5.9%	
97년12월24일	58,525	7.2%	55,611	7.0%	
98년3월18일	58,450	-0.1%	55,594	-	
98년11월1일	63,800	9.2%	60,559	9.0%	
00년11월29일	70,125	9.9%	60,599	-	
01년1월1일	70,125	-	60,955	0.2%	
02년4월10일	74,800	6.7%	66,955	-	업계 2월~28일
02년9월1일	74,800	-	69,320	5.1%	
02년9월1일	74,800	-	69,320	-	
03년5월1일	78,540	5.0%	69,320	-	업계 2월(6%)

자료: 한일시멘트 재무팀, LG투자증권 리서치센터

주: 가격은 VAT 포함

Assumptions (,%)	2003.12	2004.12	2005.12	2006.12	2007.12	2008.12
I.						
1. ()	590,894,257	585,291,503	585,291,503	585,291,503	585,291,503	585,291,503
	4.28	-0.95	0.00	0.00	0.00	0.00
2. 가	343,979,447	343,979,447	343,979,447	343,979,447	343,979,447	343,979,447
가	58.21	58.77	58.77	58.77	58.77	58.77
< >	1997.12	1998.12	1999.12	2000.12	2001.12	2002.12
	76.14	75.92	70.71	70.71	70.23	65.68
	74.86	81.86	80.46	83.54	80.62	88.83
	82.24	84.56	84.12	87.02	81.43	75.44
	73.54	72.32	74.23	79.95	76.69	76.47
	77.22	93.79	78.43	75.45	65.42	62.70
	71.05	74.46	74.32	79.15	71.29	64.84
	75.78	81.40	78.31	81.02	75.09	73.66
3.	62,959,608	78,938,693	75,413,082	76,335,246	77,377,645	78,541,327
	10.65	13.49	12.88	13.04	13.22	13.42
< >	1997.12	1998.12	1999.12	2000.12	2001.12	2002.12
0	13.63	14.63	16.14	10.40	10.20	9.10
	9.02	9.69	8.11	8.33	11.06	9.18
	8.54	7.98	9.28	12.43	9.72	9.82
	12.87	14.10	12.77	14.05	16.87	16.00
	9.95	10.52	9.51	9.32	8.57	8.42
	14.16	11.04	12.09	11.32	9.68	10.61
	10.91	10.67	10.35	11.09	11.18	10.81
	(1)2003-2004- (2)					
4. (2)	155,979,628	155,979,628	155,979,628	155,979,628	155,979,628	155,979,628
(1) < >	1997.12	1998.12	1999.12	2000.12	2001.12	2002.12
0	3.65	2.97	3.85	3.57	3.69	4.14
	3.76	4.17	9.84	8.81	7.05	4.19
	6.25	4.54	5.61	5.55	7.45	9.72
	2.89	2.56	3.00	2.80	2.84	2.83
	4.14	3.04	3.09	3.18	3.25	3.76
	5.73	4.51	5.80	10.20	11.09	8.88
	4.55	3.77	5.47	6.11	6.34	5.88
	590,894,257	585,291,503	585,291,503	585,291,503	585,291,503	585,291,503
	155,979,628	155,979,628	155,979,628	155,979,628	155,979,628	155,979,628
	(1) : (2)					
5. (2)	28,783,573	28,783,573	28,783,573	28,783,573	28,783,573	28,783,573
(1) < >	1997.12	1998.12	1999.12	2000.12	2001.12	2002.12
0	16.49	13.14	14.52	16.56	20.32	24.93
	8.90	5.09	7.41	12.06	15.96	13.94
	21.47	14.90	15.89	15.80	17.11	19.48
	10.09	7.90	8.52	8.51	8.45	8.56
	12.55	10.05	10.12	12.52	17.77	19.64
	13.84	9.72	11.83	15.34	16.70	20.16
	13.37	9.53	10.75	12.85	15.20	16.36
	590,894,257	585,291,503	585,291,503	585,291,503	585,291,503	585,291,503
	28,783,573	28,783,573	28,783,573	28,783,573	28,783,573	28,783,573
	(1)2003.9 (2)					
6. (2)	52,201,714	52,201,714	52,201,714	52,201,714	52,201,714	52,201,714
(1) < >	1997.12	1998.12	1999.12	2000.12	2001.12	2002.12
0	9.63	7.90	10.37	9.70	10.55	11.29
	12.14	8.22	14.66	16.51	11.60	6.85
	6.69	5.60	7.62	9.12	9.34	7.47
	6.99	5.77	6.36	5.74	6.43	7.44
	9.55	8.69	11.59	12.34	12.38	12.05
	22.99	15.59	18.13	21.59	25.19	25.75
	11.67	8.77	11.67	13.06	12.99	11.91
	590,894,257	585,291,503	585,291,503	585,291,503	585,291,503	585,291,503
	52,201,714	52,201,714	52,201,714	52,201,714	52,201,714	52,201,714

(2)

Balance Sheet (,%)	2002.12 (Latest)	2003.12	2004.12	2005.12	2006.12	2007.12
가	53,083,778	167,713,609	301,012,088	435,537,777	565,413,684	693,615,240
가	9,438,470	11,588,534	11,588,534	11,588,534	11,588,534	11,588,534
	151,301,356	155,979,628	155,979,628	155,979,628	155,979,628	155,979,628
	4,367,549	4,279,140	4,279,140	4,279,140	4,279,140	4,279,140
	23,583,592	28,783,573	28,783,573	28,783,573	28,783,573	28,783,573
	241,774,745	368,344,484	501,642,963	636,168,652	766,044,559	894,246,115
	123,421,344	144,159,647	144,159,647	144,159,647	144,159,647	144,159,647
가	431,580,450	404,052,036	384,750,066	369,137,542	357,588,616	347,047,128
*	178,399,121	178,390,272	178,390,272	178,390,272	178,390,272	178,390,272
	5,441,977	6,157,060	6,157,060	6,157,060	6,157,060	6,157,060
	8,638,092	4,322,310	6,527	3,093 -	0 -	0
	-	-	-	-	-	-
	569,081,863	558,691,053	535,073,300	519,457,342	507,905,323	497,363,835
	810,856,608	927,035,536	1,036,716,263	1,155,625,995	1,273,949,881	1,391,609,950
	55,316,793	52,201,714	52,201,714	52,201,714	52,201,714	52,201,714
	-	-	-	-	-	-
	8,361,577	-	-	-	-	-
	49,690,772	-	-	-	-	-
	45,977,615	93,663,008	93,663,008	93,663,008	93,663,008	93,663,008
	159,346,757	145,864,722	145,864,722	145,864,722	145,864,722	145,864,722
	-	-	-	-	-	-
	16,852,188	6,446,215	-	-	-	-
	3,115,772	4,753,921	5,229,313	5,752,244	6,327,469	6,960,216
	6,588,332	6,601,427	6,601,427	6,601,427	6,601,427	6,601,427
	26,556,292	17,801,563	11,830,740	12,353,671	12,928,896	13,561,643
	-	-	-	-	-	-
	185,903,050	163,666,285	157,695,462	158,218,393	158,793,618	159,426,365
	34,415,435	34,415,435	34,415,435	34,415,435	34,415,435	34,415,435
	-	-	-	-	-	-
	365,281,136	365,281,136	365,281,136	365,281,136	365,281,136	365,281,136
	230,503,510	363,672,680	479,324,230	597,711,030	715,459,692	832,487,015
	- 5,246,524	-	-	-	-	-
	624,953,557	763,369,251	879,020,801	997,407,601	1,115,156,263	1,232,183,586
	1 OK	OK	OK	OK	OK	OK
Income Statement (,%)	2002.12 (Latest)	2003.12	2004.12	2005.12	2006.12	2007.12
가	566,639,501	590,894,257	585,291,503	585,291,503	585,291,503	585,291,503
	372,177,950	343,979,447	343,979,447	343,979,447	343,979,447	343,979,447
	194,461,551	246,914,811	241,312,056	241,312,056	241,312,056	241,312,056
	51,563,860	62,959,608	78,938,693	75,413,082	76,335,246	77,377,645
	142,897,691	183,955,203	162,373,363	165,898,974	164,976,810	163,934,411
	8,203,530	9,577,662	5,180,216	5,180,216	5,180,216	5,180,216
	6,934,213	427,062	427,062	-	-	-
가	40,179,457	10	-	-	-	-
	25,790,761	664,796	-	-	-	-
	78,196,790	192,440,998	167,126,517	171,079,190	170,157,026	169,114,627
	-	-	-	-	-	-
	-	-	-	-	-	-
	78,196,790	192,440,998	167,126,517	171,079,190	170,157,026	169,114,627
	26,317,068	59,271,827	51,474,967	52,692,391	52,408,364	52,087,305
	51,879,722	133,169,170	115,651,550	118,386,800	117,748,662	117,027,322
* 가	40,333,264	32,519,563	25,301,970	20,612,524	17,548,927	15,541,487

3. (DCF 3)

Free Cash Flow (,%)	2002.12 (Latest)	2003.12	2004.12	2005.12	2006.12	2007.12
가	142,897,691	183,955,203	162,373,363	165,898,974	164,976,810	163,934,411
	40,179,457	10	-	-	-	-
EBIT	102,718,234	183,955,193	162,373,363	165,898,974	164,976,810	163,934,411
EBITDA	183,230,955	216,474,766	187,675,333	186,511,498	182,525,737	179,475,898
EBITDA SELECTION	190,532,646					
	26,317,068	59,271,827	51,474,967	52,692,391	52,408,364	52,087,305
()	33.7	30.8	30.8	30.8	30.8	30.8
	2,333,704	131,535	131,535	-	-	-
	- 5,918,969	2,745,163	1,595,507	1,595,507	1,595,507	1,595,507
가	34,569,741	56,658,199	50,010,996	51,096,884	50,812,857	50,491,799
NOPLAT	68,148,493	127,296,994	112,362,367	114,802,090	114,163,952	113,442,612
가	40,333,264	32,519,563	25,301,970	20,612,524	17,548,927	15,541,487
가	40,179,457	10	-	-	-	-
	148,661,214	159,816,566	137,664,337	135,414,614	131,712,879	128,984,100
가	57,130,254	36,418,609	475,392	522,931	575,224	632,747
가	9,054,252	5,706,232	6,000,000	5,000,000	6,000,000	5,000,000
가	659,577	4,315,782	4,315,782	3,434	3,093	-
가	-	-	-	-	-	-
Free Cash Flow	65,524,929	35,028,159	1,208,826	4,473,634	5,421,683	4,367,253
Terminal Growth	83,136,285	194,844,726	136,455,512	130,940,979	126,291,197	124,616,847
	-					
	5,442,638	6,627,742	3,584,710	3,584,710	3,584,710	3,584,710
	17,110,901	460,039	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	71,468,023	201,012,429	140,040,222	134,525,689	129,875,906	128,201,556
		206,272,046	140,040,222	134,525,689	129,875,906	128,201,556
가		114,629,831	133,298,480	134,525,689	129,875,906	128,201,556
가 가		2,150,064	-	-	-	-
가		20,738,303	-	-	-	-
		295,527	295,527	-	-	-
가	-	68,458,322	6,446,215	-	-	-
가		-	-	-	-	-
가		-	-	-	-	-

4. WACC (DCF 4)

Key Reference		Levered Beta Market Cap Net Debt Unlevered Beta				
1 (- (60) (Default Risk 5%)	7.70		0.7010	36.53	63.47	0.3183
	6.07	(1520)	0.8139	93,402,609	1,514,254,341	0.0666
	8.90	(3410)	0.4933	353,456,105	2,733,085,735	0.0777
	0.7010	(910)	0.8571	20,605,993	21,705,972	0.4957
		(2030)	0.4358	112,509,592	104,394,653	0.2654
	12.31	(6390)	0.5761	94,387,257	269,214,912	0.1937
			0.6230	75,834,281	131,771,846	0.3183
Cost of Capital 가 가						
	-	0.00		0.00		
	6,446,215	100.00	7.00	4.84		
	-	0.00		0.00		
		0.00		0.00		
		0.00		0.00		
-1		0.00		0.00		
-2		0.00		0.00		
-3		0.00		0.00		
	3,709,776		7.00	4.84	63.47	3.07
	-			12.31	36.53	4.50
	10,155,991			0.00		
						7.57
가 12.31						

5. EBITDA (Multiple 3)

6. Multiple (Multiple 4)

(1) Market Multiple

	2002.12. 001520	2002.12. 003410	2002.12. 000910	2002.12. 002030	2002.12. 006390	2002.12. 004980
Balance Sheet						
Total Assets	2,075,436,117	3,548,373,828	94,717,349	593,062,383	695,761,696	1,161,835,280
Total Debt	1,798,178,798	3,326,529,562	38,722,763	170,706,169	389,531,185	809,857,060
Total Equity	277,257,319	221,844,266	55,994,586	422,356,213	306,230,511	351,978,220
Non Operating Asset	819,243,881	558,141,963	18,394,902	253,237,591	125,403,609	24,717,572
Interest Bearing Debt	1,514,254,341	2,733,085,735	21,705,972	104,394,653	269,214,912	628,738,385
Net Operating Asset	972,267,779	2,396,788,038	59,305,656	273,513,276	450,041,814	955,999,033
Income Statement						
Revenue	1,440,781,277	1,168,167,864	58,434,649	249,237,280	367,822,283	567,334,450
EBIT	119,943,168	103,460,481	3,765,833	64,842,764	69,989,454	131,957,421
EBITDA	241,550,629	298,564,525	9,101,420	92,603,050	122,576,606	205,935,797
Corporate Value						
Common Stock						
Stock Price	2,889	2,034	15,146	25,682	12,852	12,473
Stock #	27,428,587	141,909,119	1,360,448	4,380,844	7,344,000	17,923,049
Preferred Stock						
Stock Price	1,514	1,436	-	-	-	5,640
Stock #-1	9,347,748	45,141,736	-	-	-	1,243,236
Total Stock Value	93,402,609	353,456,105	20,605,993	112,509,592	94,387,257	230,568,485
Interest Bearing Debt	1,514,254,341	2,733,085,735	21,705,972	104,394,653	269,214,912	628,738,385
Total Value	1,607,656,950	3,086,541,840	42,311,965	216,904,245	363,602,169	859,306,870
Non Operating Asset	819,243,881	558,141,963	18,394,902	253,237,591	125,403,609	24,717,572
Cashes	20,309,293	53,069,278	2,742,552	45,025,332	28,483,452	10,397,461
Total Invested Capital	788,413,069	2,528,399,877	23,917,063	36,333,346	238,198,560	834,589,298
Enterprise Value	1,587,347,657	3,033,472,562	39,569,413	171,878,913	335,118,717	848,909,409
Index						
EBITDA	241,550,629	298,564,525	9,101,420	92,603,050	122,576,606	205,935,797
EBIT	119,943,168	103,460,481	3,765,833	64,842,764	69,989,454	131,957,421
Revenue	1,440,781,277	1,168,167,864	58,434,649	249,237,280	367,822,283	567,334,450
Net Operating Asset	972,267,779	2,396,788,038	59,305,656	273,513,276	450,041,814	955,999,033
Multiple						
TIC/EBITDA Multiple	3.3	8.5	2.6	0.4	1.9	4.1
EV/EBITDA Multiple	6.6	10.2	4.3	1.9	2.7	4.1
EBIT Multiple	6.6	24.4	6.4	0.6	3.4	6.3
Revenue Multiple	0.5	2.2	0.4	0.1	0.6	1.5
Net Operating Asset Multiple	0.8	1.1	0.4	0.1	0.5	0.9
PER (High)	-	5.1	9.2	17.1	3.4	3.7
PER (Low)	-	1.5	3.4	4.7	2.2	2.0
PER (FY End)	-	1.6	3.8	4.7	2.4	2.8
Multiple Selection						
TIC/EBITDA M. Selected	2.6					
EV/EBITDA M. Selected	4.6					

(2) Historical Multiple

Valuation Reference	1997.12	1998.12	1999.12	2000.12	2001.12	2002.12	2003.09
가	193,251,000	92,135,000	179,005,000	95,246,000	122,854,000	253,781,000	322,517,000
가	0	0	0	0	0	0	0
가 (Equity Value)	193,251,000	92,135,000	179,005,000	95,246,000	122,854,000	253,781,000	322,517,000
(+) (Interest Bearing Debt)	246,524,098	276,717,623	226,750,290	185,085,951	166,195,576	74,904,537	6,446,215
가 (Firm Value)	439,775,098	368,852,623	405,755,290	280,331,951	289,049,576	328,685,537	328,963,215
(-) 가 (Non-Operating Asset)	159,402,815	177,617,099	172,436,773	131,506,275	164,738,335	185,943,592	249,433,989
가 (Total Invested Capital)	280,372,283	191,235,524	233,318,517	147,109,865	128,591,759	147,812,866	86,838,620
	479,180,386	374,229,283	383,730,781	417,553,063	484,913,438	566,639,501	443,312,794
	48,995,589	35,373,934	50,456,622	78,885,613	94,934,812	142,897,691	118,248,988
	10,402,384	6,452,764	16,101,102	20,460,784	29,781,260	51,879,722	85,824,982
EBITDA	92,726,708	80,844,299	101,307,645	123,362,032	138,110,636	183,230,955	145,605,583
EV/EBITDA Multiple	4.13	3.91	3.41	2.02	1.91	1.45	1.54
TIC/EBITDA Multiple	3.02	2.37	2.30	1.19	0.93	0.81	0.60

2000 2002 TIC/EBITDA 0.977 .
(EV/EBITDA Multiple : 1.793)

7. 가 (5)

(1) 가

1) DCF

Value of Operating	Free Cash Flow	() 12	3
2003.12	194,844,726	0.9714	189,271,426
2004.12	136,455,512	0.8649	118,024,746
2005.12	130,940,979	0.7701	100,842,400
2006.12	126,291,197	0.6857	86,601,669
2007.12	124,616,847	0.6106	76,087,889
2008.12	121,559,745	0.5437	66,086,713
2009.12	120,884,314	0.4841	58,516,712
2010.12	123,451,820	0.4310	53,209,975
2011.12	120,715,627	0.3838	46,328,117
가	124,616,847	4.9604	618,150,426
가			1,112,890,666

$$\begin{aligned}
 & \text{FCF 가} + \text{가 (CV) 가} = \text{가} \\
 & \text{PV}(2003.12. \sim 2007.12. \text{ FCF}) + \text{PV}(124,616,847 \text{ 가}) \\
 & = (189,271,426 + 118,024,746 + 100,842,400 + 86,601,669 + 76,087,889) + 618,150,426 \\
 & = 1,112,890,666
 \end{aligned}$$

2) Market Multiple

$$\text{EBITDA} * \text{Market Multiple} = 190,532,646 * 2.6 = 495,384,879$$

3) Historical Multiple

$$\text{EBITDA} * \text{Historical Multiple} = 190,532,646 * 0.977 = 186,150,395$$

4) EV/EBITDA Multiple

$$\text{EBITDA} * \text{EV/EBITDA Multiple} = 190,532,646 * 4.6 = 876,450,172$$

가 141,648 .

5) EV/EBITDA Historical Multiple

$$\text{EBITDA} * \text{EV/EBITDA H. M.} = 190,532,646 * 1.793 = 341,625,043$$

(2) 가

(:)

	DCF	Market Multiple	Historical Multiple	EV/EBITDA H.M.
1. 가 : TIC	1,112,890,666	495,384,879	186,150,395	341,625,043
2. 가 : NOA	249,433,989	249,433,989	249,433,989	105,274,342
3. 가 (1+2) : FV	1,362,324,655	744,818,868	435,584,384	446,899,385

(3) 가

(: ,)

	DCF	Market Multiple	Historical Multiple	EV/EBITDA H.M.
1. 가 : FV	1,362,324,655	744,818,868	435,584,384	446,899,385
2. 가 : IBD	6,446,215	6,446,215	6,446,215	6,446,215
3. 가 (1-2) : EV	1,355,878,440	738,372,653	429,138,169	440,453,170
4.	6,883,087	6,883,087	6,883,087	6,883,087
5. 가 (3÷4)	196,987	107,273	62,346	63,991

가, WACC 가 Multiple

196,987 2.6 107,273 0.977 Multiple

Multiple EV/EBITDA Multiple

H 가 62,000 2004 가

가가 가가 가가

EV/EBITDA Historical Multiple TIC/EBITDA Historical Multiple

가 가

가 2,494 가

36,238 23,762 가가 60,000 1,500 가

가 47,052 48,696 48,000 40% 가

(WACC, hurdle rate)

가

5% 가

M&A Valuation 5%

“

. EVA 가

1, 2, 5, 3, 4, WACC

WACC DCF WACC EVA(EP) WACC

	2002.12 (Latest)	2003	2004	2005	2006	2007
NOPLAT		127,296,994	112,362,367	114,802,090	114,163,952	113,442,612
ROIC=NOPLAT/IC		24.77	25.17	27.19	28.11	28.79
IC * WACC		63,262,875	54,946,138	51,980,271	49,993,574	48,500,710
IC()		513,914,502	446,353,676	422,260,532	406,121,643	393,994,398
WACC		12.31	12.31	12.31	12.31	12.31
EVA(EP) = NOPLAT - IC*WACC		64,034,119	57,416,229	62,821,819	64,170,378	64,941,902
PVIF		0.9864	0.9084	0.8365	0.7704	0.7095
MVA	637,665,073	63,160,981	52,155,088	52,552,951	49,436,280	46,074,515
IC	513,914,502					374,285,258
Operating Value(MVA + IC)	1,151,579,575					
(+)NOA	249,433,989					
FV	1,401,013,564					
(-)IBD	6,446,215					
Equity Value	1,394,567,349					
(÷) Outstanding Shares	6,883,087					
Equity Value Per Share	202,608					

EVA EP DCF, Invested Capital

WACC 가

가

EVA (IC)

				Valuation (DCF	Multiple	)
ROIC	25%	12.31%	가	(WACC)	, ROIC 가	가
,	.	.	,		가	
가		가	가	, ROIC 25%	가	.
, ROIC 25%		.	,			
,						.

VII. Case Study 2. (K)

Situation :

K 가 (가) , 가 (:)

	153,514		(30,703)	(122,811)	0		(0)
	98,852	0	(9,885)	(9,885)	(79,082)	70,000	70,000
	93,510		(9,351)	(9,351)	(74,808)	70,000	70,000
	5,342		(534)	(534)	(4,274)		0
			0	0	0		0
	39,750		0	0	0		39,750
가	(74,857)				74,857	(10,089)	(10,089)
	22,046						22,046
	338,157	0	(40,588)	(132,696)	(4,225)	59,911	121,707
	96,773	(91,934)	1,921	0	0	70,000	76,760
	96,773	(91,934)	1,921			70,000	76,760
	0						0
		91,934	74,930				166,864
	(53,859)			0	4,225	(10,089)	(59,724)
	29,980		(36,263)				(6,283)
	72,894	0	40,588	0	4,225	59,911	177,617
*1.	20	1					
*2.							
	153,514	20%	80%	0%	200,000	768	29,935
-	93,510	10%	10%	80%	200,000	234	9,117
-	5,342	10%	10%	80%	200,000	13	521
	0				0	0	0
	39,750				0	0	0
(	36,263	100%			200,000	907	35,356
						1,921	74,930
*3.							
		70,000					
Re-Finance		70,000					

1. NOA, IBD (1)

(1)

Balance Sheet (,%)	1996.12	1997.12	1998	1999.12	2000.12	2001.12
가	54,957,028	35,207,725	0	12,721,176	20,149,461	24,154,093
가	5,072,555	13,846,127	0	34,246	30,360	0
	114,857,330	118,704,702	0	46,454,486	42,807,807	53,032,024
	108,154,216	91,375,682	0	4,041,794	2,560,305	1,931,421
	180,498,410	144,965,269	0	57,413,205	60,817,580	59,634,482
	463,539,539	404,099,505	0	120,664,907	126,365,513	138,752,020
가	38,753,571	37,233,383	0	21,489,233	10,435,405	11,198,208
*	210,621,917	213,928,616	0	276,269,774	265,246,282	258,298,246
	102,042,613	103,615,843	0	165,675,403	165,433,973	161,722,236
	1,692,033	312,985	0	0	0	2,000
	4,592,616	4,927,546	0	3,806,547	4,119,650	2,800,221
	255,172	139,041	0	0	0	0
	255,915,309	256,541,571	0	301,565,554	279,801,337	272,298,675
	719,454,848	660,641,076	0	422,230,461	406,166,850	411,050,695
	81,573,569	57,438,622	0	35,532,593	18,320,108	17,371,792
	160,829,600	306,279,048	0	711,046,724	50,500,130	39,750,130
	23,314,388	45,414,000	0	289,443	0	2,971,988
	101,825,429	92,030,711	0	0	0	0
	39,220,680	56,197,369	0	205,117,464	32,874,624	27,444,482
	406,763,666	557,359,750	0	951,986,224	101,694,862	87,538,392
	161,417,526	91,192,233	0	0	0	0
	22,304,057	18,927,335	0	613,505	183,127,992	194,846,596
	39,269,665	39,772,300	0	39,188,584	47,224,515	53,271,790
	4,264,945	7,719,052	0	1,788,110	1,544,740	2,500,409
	227,256,193	157,610,920	0	41,590,199	231,897,247	250,618,795
	0	0	0	0	0	0
	634,019,859	714,970,669	0	993,576,423	333,592,110	338,157,188
	170,429,785	170,429,785	0	11,361,985	96,772,865	96,772,865
	0	0	0	0	0	0
	32,195,012	32,195,012	0	0	0	0
	-114,331,760	-250,928,767	0	-582,590,046	-54,142,155	-53,859,418
	-2,858,048	-6,025,624	0	-117,901	29,944,030	29,980,060
	85,434,989	-54,329,594	0	-571,345,962	72,574,740	72,893,507
	OK	1 OK	OK	OK	OK	OK

Income Statement (,%)	1996.12	1997.12	1998	1999.12	2000.12	2001.12
가	294,266,843	245,211,414	0	121,445,176	170,626,154	193,939,269
	270,826,900	266,730,827	0	145,464,191	162,782,027	175,919,741
	23,439,943	-21,519,413	0	-24,019,015	7,844,127	18,019,528
	16,207,089	36,659,669	0	18,696,820	9,181,976	9,016,647
	7,232,854	-58,179,082	0	-42,715,835	-1,337,849	9,002,881
	22,599,394	28,596,375	0	3,229,346	4,106,481	18,008,401
	74,637,187	83,736,933	0	141,719,081	28,663,339	29,569,350
가	5,562,561	45,487,755	0	24,774,362	10,947,194	969,231
	2,481,880	2,911,038	0	5,550,396	7,242,275	2,613,106
	-52,849,380	-161,718,433	0	-211,530,328	-44,084,176	-6,140,405
	4,183,608	26,267,933	0	3,312,098	563,221,778	6,423,142
	64,483	0	0	0	0	0
	-48,730,255	-135,450,500	0	-208,218,230	519,137,602	282,737
	39,732	0	0	0	0	0
	-48,769,987	-135,450,500	0	-208,218,230	519,137,602	282,737

(2) NOA, IBD

가	24,154,093
가	0
	11,198,208
	35,352,301
	0
	0
	0
	59,911,000
	0
가	59,911,000

NOA IBD

2. (2)

(1) Forecasting

Assumptions (,%)		2002.12.	2003.12.	2004.12.	2005.12.	2006.12.	2007.12.
I.							
1.	()	193,939,269	234,428,193	274,917,116	274,917,116	274,917,116	274,917,116
		13.66	20.88	17.27	0.00	0.00	0.00
2.	가	174,355,812	199,320,289	220,235,874	220,235,874	220,235,874	220,235,874
		89.90	85.02	80.11	80.11	80.11	80.11
	가						
	< >	1996.12	1997.12	1998	1999.12	2000.12	2001.12
		92.03	108.78	#DIV/0!	119.78	95.40	90.71
		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	82.96	79.21
		86.93	89.55	101.97	90.49	86.33	85.32
		85.05	94.19	96.81	86.64	83.42	88.89
		84.78	85.25	88.12	82.17	81.78	82.97
0		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
		85.59	89.66	95.63	86.44	83.85	85.73
3.		9,477,182	9,816,371	10,167,375	10,538,838	10,933,712	11,349,858
		4.89	4.19	3.70	3.83	3.98	4.13
	< >	1996.12	1997.12	1998	1999.12	2000.12	2001.12
0		5.51	14.95	#DIV/0!	15.40	5.38	4.65
		#DIV/0!	#DIV/0!	#DIV/0!	#DIV/0!	21.23	16.09
		7.90	8.16	11.61	10.22	10.12	10.02
		7.66	9.09	6.84	10.46	13.61	12.12
		14.79	15.78	28.72	16.14	15.37	13.56
0		#N/A	#N/A	#N/A	#N/A	#N/A	#N/A
		10.12	11.01	15.72	12.27	13.03	11.90
4.	(2)	44,000,000	50,000,000	60,000,000	60,000,000	60,000,000	60,000,000
	(1)	1996.12	1997.12	1998	1999.12	2000.12	2001.12
< >		0.00	2.10	0.00	5.23	3.82	4.05
0		0.00	0.00	0.00	0.00	1.23	2.82
		5.69	4.80	3.21	4.90	5.37	5.24
		6.83	4.71	4.68	6.10	5.28	4.12
		3.47	2.68	1.28	3.12	3.69	3.48
0		0.00	0.00	0.00	0.00	0.00	0.00
		3.20	2.44	1.83	2.82	3.11	3.13
		193,939,269	234,428,193	274,917,116	274,917,116	274,917,116	274,917,116
		44,000,000	50,000,000	60,000,000	60,000,000	60,000,000	60,000,000
5.	(2)	59,634,482	63,251,662	67,230,559	67,230,559	67,230,559	67,230,559
	(1)	1996.12	1997.12	1998	1999.12	2000.12	2001.12
< >		0.00	1.51	0.00	4.23	2.89	3.22
0		0.00	0.00	0.00	0.00	2.89	6.42
		14.03	11.78	6.62	13.27	16.90	13.49
		7.07	5.36	5.17	5.27	4.64	4.35
		7.35	6.81	4.04	9.42	11.09	10.88
0		0.00	0.00	0.00	0.00	0.00	0.00
		5.69	4.79	3.17	5.59	7.10	7.03
		193,939,269	234,428,193	274,917,116	274,917,116	274,917,116	274,917,116
		59,634,482	63,251,662	67,230,559	67,230,559	67,230,559	67,230,559
6.	(2)	17,371,792	17,371,792	17,371,792	17,371,792	17,371,792	17,371,792
	(1)	1996.12	1997.12	1998	1999.12	2000.12	2001.12
< >		0.00	3.53	0.00	6.84	6.34	10.87
0		0.00	0.00	0.00	0.00	2.38	5.48
		7.36	6.59	4.45	6.65	5.78	5.09
		3.55	3.22	3.20	3.51	5.37	9.36
		5.48	4.57	2.38	5.19	6.58	5.99
0		0.00	0.00	0.00	0.00	0.00	0.00
		3.28	2.88	2.01	3.07	4.02	5.18
		193,939,269	234,428,193	274,917,116	274,917,116	274,917,116	274,917,116
		17,371,792	17,371,792	17,371,792	17,371,792	17,371,792	17,371,792

(2)

Balance Sheet (,%)	2001.12 (Latest)	2002.12.	2003.12.	2004.12.	2005.12.	2006.12.
가	24,154,093	26,288,620	19,933,085	49,736,718	94,011,678	113,034,793
가	-	-	-	-	-	-
	53,032,024	44,000,000	50,000,000	60,000,000	60,000,000	60,000,000
	1,931,421	1,931,421	1,931,421	1,931,421	1,931,421	1,931,421
	59,634,482	59,634,482	63,251,662	67,230,559	67,230,559	67,230,559
	138,752,020	131,854,523	135,116,168	178,898,698	223,173,659	242,196,773
	11,198,208	11,198,208	11,198,208	11,198,208	11,198,208	11,198,208
가	258,298,246	246,756,000	239,628,280	232,788,504	225,973,211	219,762,494
*	161,722,236	161,722,000	161,722,000	161,722,000	161,722,000	161,722,000
	2,000	342,000	342,000	342,000	342,000	342,000
	2,800,221	3,089,738	2,059,824	1,029,912	1	1
	-	-	-	-	-	-
	272,298,675	261,385,946	253,228,312	245,358,624	237,513,418	231,302,701
	411,050,695	393,240,468	388,344,480	424,257,322	460,687,077	473,499,474
	17,371,792	17,371,792	17,371,792	17,371,792	17,371,792	17,371,792
	39,750,130	39,750,130	15,000,000	15,000,000	15,000,000	15,000,000
	2,971,988	-	-	-	-	-
	-	-	-	-	-	-
	27,444,482	25,748,000	25,748,000	25,748,000	25,748,000	25,748,000
	87,538,392	82,869,922	58,119,792	58,119,792	58,119,792	58,119,792
	-	-	-	-	-	-
	194,846,596	59,911,000	62,900,320	66,248,358	69,998,161	50,000,000
	53,271,790	59,111,000	65,022,100	71,524,310	78,676,741	86,544,415
	2,500,409	2,500,000	2,500,000	2,500,000	2,500,000	2,500,000
	250,618,795	121,522,000	130,422,420	140,272,668	151,174,902	139,044,415
	-	-	-	-	-	-
	338,157,188	204,391,922	188,542,212	198,392,460	209,294,694	197,164,207
	96,772,865	76,759,865	76,759,865	76,759,865	76,759,865	76,759,865
	-	-	-	-	-	-
	-	166,864,000	166,864,000	166,864,000	166,864,000	166,864,000
-	53,859,418	48,492,319	37,538,597	11,476,003	14,051,517	38,994,402
-	29,980,060	6,283,000	6,283,000	6,283,000	6,283,000	6,283,000
-	72,893,507	188,848,546	199,802,268	225,864,862	251,392,382	276,335,267
	OK	OK	OK	OK	OK	OK
Income Statement (,%)	2001.12 (Latest)	2002.12.	2003.12.	2004.12.	2005.12.	2006.12.
가	193,939,269	193,939,269	234,428,193	274,917,116	274,917,116	274,917,116
	175,919,741	174,355,812	199,320,289	220,235,874	220,235,874	220,235,874
	18,019,528	19,583,457	35,107,903	54,681,242	54,681,242	54,681,242
	9,016,647	9,477,182	9,816,371	10,167,375	10,538,838	10,933,712
	9,002,881	10,106,276	25,291,532	44,513,867	44,142,404	43,747,530
	18,008,401	18,022,524	2,496,880	2,496,880	2,496,880	2,496,880
	29,569,350	11,958,120	11,959,336	9,348,038	9,749,803	10,199,779
가	969,231	-	-	-	-	-
	2,613,106	2,550,756	-	-	-	-
-	6,140,405	13,619,924	15,829,077	37,662,709	36,889,481	36,044,631
	6,423,142	4,225,000	-	-	-	-
	-	10,089,000	-	-	-	-
	282,737	7,755,924	15,829,077	37,662,709	36,889,481	36,044,631
	-	2,388,825	4,875,356	11,600,114	11,361,960	11,101,746
	282,737	5,367,099	10,953,721	26,062,594	25,527,521	24,942,885
* 가	11,202,281	11,202,000	11,823,320	11,875,444	11,880,571	11,948,034

(3) FCF EBITDA

Free Cash Flow (,%)	2001.12 (Latest)	2002.12.	2003.12.	2004.12.	2005.12.	2006.12.
	9,002,881	10,106,276	25,291,532	44,513,867	44,142,404	43,747,530
가	969,231	-	-	-	-	-
	-	-	-	-	-	-
EBIT	8,033,650	10,106,276	25,291,532	44,513,867	44,142,404	43,747,530
EBITDA	20,205,162	21,308,276	37,114,852	56,389,311	56,022,975	55,695,565
EBITDA SELECTION	45,306,196					
	-	2,388,825	4,875,356	11,600,114	11,361,960	11,101,746
()	-	30.8	30.8	30.8	30.8	30.8
	-	3,683,101	3,683,475	2,879,196	3,002,939	3,141,532
	-	4,765,305	769,039	769,039	769,039	769,039
	-	1,306,621	7,789,792	13,710,271	13,595,860	13,474,239
가	-	-	-	-	-	-
NOPLAT	8,033,650	8,799,655	17,501,740	30,803,596	30,546,543	30,273,291
가	11,202,281	11,202,000	11,823,320	11,875,444	11,880,571	11,948,034
가	969,231	-	-	-	-	-
	20,205,162	20,001,655	29,325,060	42,679,040	42,427,114	42,221,325
가	8,756,980	13,174,343	3,706,080	7,476,688	7,152,431	7,867,674
가	4,256,245	246	4,695,600	5,035,668	5,065,278	5,737,317
가	- 1,319,429	289,517	1,029,914	1,029,913	1,029,913	-
가	-	-	-	-	-	-
	11,693,796	12,885,073	7,371,766	11,482,443	3,117,066	2,130,357
Free Cash Flow	8,511,366	32,886,727	21,953,294	31,196,596	45,544,180	44,351,682
Terminal Growth	-					
	18,008,401	12,471,587	1,727,841	1,727,841	1,727,841	1,727,841
	2,613,106	1,765,123	-	-	-	-
	6,423,142	4,225,000	-	-	-	-
	-	10,089,000	-	-	-	-
	30,329,803	37,729,191	23,681,135	32,924,437	47,272,021	46,079,523
		1,466,130	23,681,135	32,924,437	47,272,021	46,079,523
가		2,134,527	6,355,535	29,803,633	44,274,960	19,023,114
가 가		-	-	-	-	-
가		-	-	-	-	-
		8,275,019	8,275,860	6,468,843	6,746,864	7,058,247
가	-	137,907,584	21,760,810	3,348,038	3,749,803	19,998,161
가	-	20,013,000	-	-	-	-
가		166,864,000	-	-	-	-

4. WACC (DCF 4)

Key Reference		Levered Beta		Market Cap	Net Debt	Unlevered Beta
1	()	7.70	0.6511	181,616,217	336,138,140	0.2855
	()	6.07	(4267)	512,801,315	958,993,023	0.4162
	()	8.90	(05030)	9,299,388	20,859,207	0.1293
	(60)	0.6511	(12280)	22,747,948	28,562,189	0.3109
			(10660)	18,131,592	18,037,343	0.4207
(Default Risk 5%)		16.86	0.0000	-	-	#DIV/0!
			0.6220	181,616,217	336,138,140	0.2855
Cost of Capital		가		가		
-1 -2 -3		39,750,130	10.86	10.00	6.92	0.75
		197,818,584	54.06	7.00	4.84	2.62
		-	0.00	10.00	6.92	0.00
			0.00		0.00	0.00
			0.00		0.00	0.00
			0.00		0.00	0.00
			0.00		0.00	0.00
			0.00		0.00	0.00
			0.00		0.00	0.00
			0.00		0.00	0.00
		128,358,927	35.08	8.50	16.86	5.92
		-	0.00		0.00	0.00
		365,927,641	100.00			
가		16.86				

5. EBITDA (Multiple 3)

6. Multiple (Multiple 4)

(1) Market Multiple

	<u>2001.12.</u> <u>42670</u>	<u>2001.12.</u> <u>05030</u>	<u>2001.12.</u> <u>12280</u>	<u>2001.12.</u> <u>10660</u>
Balance Sheet				
Total Assets	2,313,154,900	54,065,533	55,443,018	103,110,564
Total Debt	1,658,402,713	34,878,127	35,997,308	45,038,507
Total Equity	654,752,188	19,187,407	19,445,711	58,072,057
Non Operating Asset	459,018,003	9,627,942	5,681,990	20,270,504
Interest Bearing Debt	958,993,023	20,859,207	28,562,189	18,037,343
Net Operating Asset	1,154,727,207	30,418,671	42,325,909	55,838,896
Income Statement				
Revenue	1,540,261,374	46,215,366	46,974,336	81,136,524
EBIT	72,359,135	2,154,219	(472,794)	2,814,740
EBITDA	169,269,757	5,399,647	3,750,257	8,979,429
Corporate Value				
Common Stock				
Stock Price	3,053	12,916	782	8,242
Stock #	167,957,384	720,000	29,080,340	2,200,000
Preferred Stock				
Stock Price	-	-	-	-
Stock #-1	-	-	-	-
Total Stock Value	512,801,315	9,299,388	22,747,948	18,131,592
Interest Bearing Debt	958,993,023	20,859,207	28,562,189	18,037,343
Total Value	1,471,794,338	30,158,595	51,310,137	36,168,935
Non Operating Asset	459,018,003	9,627,942	5,681,990	20,270,504
Total Invested Capital	1,012,776,335	20,530,653	45,628,147	15,898,431
Index				
EBITDA	169,269,757	5,399,647	3,750,257	8,979,429
EBIT	72,359,135	2,154,219	- 472,794	2,814,740
Revenue	1,540,261,374	46,215,366	46,974,336	81,136,524
Net Operating Asset	1,154,727,207	30,418,671	42,325,909	55,838,896
Multiple				
EBITDA Multiple	6.0	3.8	12.2	1.8
EBIT Multiple	14.0	9.5	- 96.5	5.6
Revenue Multiple	0.7	0.4	1.0	0.2
Net Operating Asset Multiple	0.9	0.7	1.1	0.3
PER (High)	-	-	-	-
PER (Low)	-	-	-	-
PER (FY End)	-	-	-	-

Multiple Selection				
EBITDA Multiple Selected		5.9		

(2) Historical Multiple

Valuation Reference	1996.12	1997.12	1998	1999.12	2000.12	2001.12
가	156,148,583	116,409,380	0	4,609,042	18,567,918	17,160,268
가	0	0	0	0	0	0
가 (Equity Value))	156,148,583	116,409,380	0	4,609,042	18,567,918	17,160,268
(+) (Interest Bearing Debt)	469,691,000	553,843,327	0	185,085,951	166,195,576	74,904,537
가 (Firm Value)	625,839,583	670,252,707	0	189,694,993	184,763,494	92,064,805
(-) 가 (Non-Operating Asset)	98,783,154	86,287,235	0	34,244,655	30,615,226	35,352,301
가 (Total Invested Capital)	527,056,429	583,965,472	0	147,109,865	128,591,759	147,812,866
	294,266,843	245,211,414	0	121,445,176	170,626,154	193,939,269
	7,232,854	-58,179,082	0	-42,715,835	-1,337,849	9,002,881
	-48,769,987	-135,450,500	0	-208,218,230	519,137,602	282,737
EBITDA	25,065,074	-40,181,676	0	-16,702,098	14,724,176	20,205,162
EV/EBITDA Multiple	22.57	-15.46	#DIV/0!	-10.59	11.18	3.36
TIC/EBITDA Multiple	21.03	-14.53	#DIV/0!	-8.81	8.73	7.32

, 1996

가

Multiple

Historical Multiple

7. 가 (5)

(1) 가

1) DCF

Value of Operating		Free Cash Flow	() 12	7
				FCF 가
2002.12.		32,886,727	0.9131	30,028,820
2003.12.		21,953,294	0.7813	17,152,728
2004.12.		31,196,596	0.6686	20,857,229
2005.12.		45,544,180	0.5721	26,055,427
2006.12.		44,351,682	0.4895	21,711,573
2007.12.		46,030,415	0.4189	19,281,552
2008.12.		46,351,964	0.3584	16,614,265
2009.12.		43,089,125	0.3067	13,215,895
2010.12.		42,889,176	0.2624	11,256,218
2011.12.		43,685,069	0.2246	9,810,558
가		44,351,682	1.3316	59,059,118
가				245,043,384

2) Market Multiple

$$\text{EBITDA} * \text{Multiple} = 45,306,196 * 5.9 = 267,306,556$$

3) Historical Multiple

(2) 가

(:)

	DCF	Market Multiple	Historical Multiple
1. 가 : TIC	245,043,384	267,306,556	
2. 가 : NOA	35,352,301	35,352,301	
3. 가 (1+2) : FV	280,395,685	302,658,857	

(3) 가

(: ,)

	DCF	Market Multiple	Historical Multiple
1. 가 : FV	280,395,685	302,658,857	
2. 가 : IBD	59,911,000	59,911,000	
3. 가 (1-2) : EV	220,484,685	242,747,857	
4.	19,354,573	19,354,573	
5. 가 (3÷4)	11,392	12,542	

. EVA 가

1 , 2 5 , 3 EVA(EP) , 4 WACC
WACC DCF WACC

EVA 가 가	2001.12 (Latest)	2002.12.	2003.12.	2004.12.	2005.12.	2006.12.
NOPLAT		8,799,655	17,501,740	30,803,596	30,546,543	30,273,291
ROIC=NOPLAT/IC		3.22	7.03	12.59	12.51	13.21
IC * WACC		46,071,288	42,009,027	41,258,276	41,191,997	38,662,660
IC()		273,178,499	249,091,428	244,639,874	244,246,873	229,249,236
WACC		16.86	16.86	16.86	16.86	16.86
EVA = NOPLAT - IC*WACC	-	37,271,633 -	24,507,286 -	10,454,681 -	10,645,454 -	8,389,370
PVIF		0.8557	0.7323	0.6266	0.5362	0.4588
MVA	-	88,780,766 -	31,894,261 -	17,945,826 -	6,551,083 -	5,708,219 -
IC		273,178,499				- 22,831,915
Operating Value(MVA + IC)		184,397,733				
(+)NOA		35,352,301				
FV		219,750,034				
(-)IBD		59,911,000				
Equity Value		159,839,034				
(±) Outstanding Shares		19,354,573				
Equity Value Per Share		8,258				

DCF Multiple 가 가 , 가 가 11,392
12,542 . EVA , 가 가 8,258 , ROIC
3.22%~13.21% , 5 WACC ,
WACC (ROIC) 가 ,
ROIC 가 NOPLAT IC
, IC 가 ,

< 2>
A 가 2004 100 , 100 ,
30 , 가 20 , A 가 ? ,
가 , 가 5 , A 2004 100 , 20 , 10 ,
? , 25% 가 , 가 EBITDA multiple
, ROIC 2003 ? IC 가 100 , 2004 IC 가 150 , 2004
? 20% ,
?

< 3> S A .

- : 90
- 가 : 50 ()
- DCF 가 : 100
- Multiple 가 : 50
- 가 : 10
- : 50 (: 30)
- : 100,000

Q. , .

Q. DCF 가 .

Q. Multiple 가 .

Q. 50% 가 40,000 ,
? ()

Q. 가 가 . ()

Q. , 가 가 50 가 ,
? ()

Q. , 가 30 가
? ()

< 4>

	DCF	Market Multiple	Historical Multiple
가	1,700	700	200
(+) 가	300		
= 가	2,000	1,000	500
(-) 가	0		
= 가	2000	1,000	500
(÷)	1,000,000		
= 가	200,000	100,000	50,000

가 50,000 , 가 2 가 , 가 50,000
 1,000,000 100,000 (10%) 2 가 . 1
 30% 가 ? ? ?

VIII.

1. NOA, IBD (1)

(1)

Balance Sheet (,%)	1998.12	1999.12	2000.12	2001.12	2002.12	2003.12	2004.06
가	17,435,446	19,804,968	3,225,974	4,929,767	13,970,698	19,815,404	13,063,032
가	3,044,340	931,771	23,930	219,876	575,818	0	20,720
	0	0	0	40,000	0	0	0
	68,724,527	72,133,873	48,528,707	30,064,482	7,675,398	7,853,219	11,580,658
	91,932,921	91,086,172	41,553,718	40,536,593	26,094,094	14,253,981	18,387,988
	181,137,234	183,956,784	93,332,329	75,790,718	48,316,008	41,922,604	43,052,398
가	39,128,537	39,835,032	15,437,272	14,600,714	14,444,209	16,940,656	19,364,753
*	17,435,856	1,649,940	1,535,208	1,301,455	1,092,630	1,150,005	1,215,524
	14,710,301	642,450	642,450	642,450	642,450	642,450	642,450
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	56,564,393	41,484,972	16,972,480	15,902,169	15,536,839	18,090,661	20,580,277
	237,701,627	225,441,756	110,304,809	91,692,887	63,852,847	60,013,265	63,632,675
	32,915,434	41,260,478	39,327,150	7,660,612	3,486,641	4,198,484	6,489,142
	0	3,486,900	3,503,961	0	0	0	0
	72,000	12,000	0	0	0	0	0
	0	0	0	0	0	0	0
	17,504,008	4,878,594	10,680,365	22,450,148	16,793,206	6,989,809	8,417,457
	50,491,442	49,637,972	53,511,476	30,110,760	20,279,847	11,188,293	14,906,599
	63,409,766	45,194,241	61,962,744	0	0	0	0
	156,616,524	122,688,925	109,792,274	0	0	0	0
	2,018,037	2,532,234	2,278,650	1,264,172	1,112,182	77,120	49,402
	0	592,603	-1	56,290,876	0	-1	-1
	222,044,327	171,008,003	174,033,667	57,555,048	1,112,182	77,119	49,401
	0	0	0	0	0	0	0
	272,535,769	220,645,975	227,545,144	87,665,809	21,392,030	11,265,413	14,956,001
	12,000,000	7,008,000	7,908,000	7,908,000	44,455,433	44,455,433	44,455,433
	0	0	0	0	0	0	0
	0	0	0	0	0	0	0
	-45,888,287	-714,652	-125,051,826	-17,739,202	-1,993,171	4,338,908	4,263,388
	-945,855	-1,497,567	-96,508	13,858,280	-1,444	-46,488	-42,147
	-34,834,142	4,795,781	-117,240,334	4,027,078	42,460,818	48,747,853	48,676,674
	OK	OK	-1 OK		-1	-1 OK	

Income Statement (,%)	1998.12	1999.12	2000.12	2001.12	2002.12	2003.12	2004.06
가	144,351,867	152,220,067	98,973,295	75,171,344	27,697,757	44,350,639	22,142,868
	131,859,885	124,090,709	102,505,134	73,901,552	41,765,376	33,242,906	18,715,404
	12,491,982	28,129,358	-3,531,839	1,269,792	-14,067,619	11,107,733	3,427,464
	9,169,038	5,594,372	6,445,497	3,095,271	5,177,581	4,037,574	2,921,374
	3,322,944	22,534,986	-9,977,336	-1,825,479	-19,245,200	7,070,159	506,090
	4,990,751	6,110,190	1,519,427	4,652,937	1,469,402	1,107,890	431,546
	34,732,864	25,633,481	20,846,510	5,047,926	7,815,660	249,353	0
가	15,007,841	5,566,252	27,028,078	1,944,148	8,879,773	484,853	0
	2,996,117	1,449,782	13,253,906	19,394,688	6,056,475	1,111,763	124,055
	-44,423,127	-4,004,339	-69,586,403	-23,559,304	-40,527,706	6,332,080	813,581
	2,254,375	39,568,777	8,723,181	130,871,930	34,753,125	0	0
	21,133,340	437,942	51,798,759	0	0	0	0
	-63,302,092	35,126,496	-112,661,981	107,312,626	-5,774,581	6,332,080	813,581
	0	11,239,717	7,111,672	0	0	0	0
	-63,302,092	23,886,779	-119,773,653	107,312,626	-5,774,581	6,332,080	813,581
(가)	703,330	455,395	379,452	237,630	209,206	62,917	51,254

(2) Valuation Reference

Free Cash Flow (,%)	1998.12	1999.12	2000.12	2001.12	2002.12	2003.12	2004.06
	3,322,944	22,534,986	-9,977,336	-1,825,479	-19,245,200	7,070,159	506,090
가	15,007,841	5,566,252	27,028,078	1,944,148	8,879,773	484,853	0
	0	0	0	0	0	0	0
EBIT	-11,684,897	16,968,734	-37,005,414	-3,769,627	-28,124,973	6,585,306	506,090
	0	11,239,717	7,111,672	0	0	0	0
()	0	32	-6	0	0	0	0
	0	8,202,158	-1,315,915	0	0	0	0
	0	1,491,229	740,727	0	0	0	0
	0	17,950,646	5,055,030	0	0	0	0
가	0	0	0	0	0	0	0
NOPLAT	-11,684,897	-981,912	-42,060,444	-3,769,627	-28,124,973	6,585,306	506,090
가	703,330	455,395	379,452	237,630	209,206	62,917	51,254
가	15,007,841	5,566,252	27,028,078	1,944,148	8,879,773	484,853	0
	4,026,274	5,039,735	-14,652,914	-1,587,849	-19,035,994	7,133,076	557,344
가	4,521,128	11,302,419	-49,131,797	-52,876,846	38,281,969	-1,050,822	4,170,858
가	367,052	-15,330,521	264,720	3,877	381	120,292	116,773
가	0	0	0	0	0	0	0
가	-32,563	0	0	0	0	0	0
	4,855,617	-4,028,102	-48,867,077	-52,872,969	38,282,350	-930,530	4,287,631
Free Cash Flow	-829,343	9,067,837	34,214,163	51,285,120	-57,318,344	8,063,606	-3,730,287
	4,990,751	4,155,062	1,615,339	4,652,937	1,469,402	1,107,890	431,546
	2,996,117	985,883	14,090,545	19,394,688	6,056,475	1,111,763	124,055
	2,254,375	39,568,777	8,723,181	130,871,930	34,753,125	0	0
	21,133,340	437,942	51,798,759	0	0	0	0
	-17,713,674	51,367,851	-21,336,621	167,415,299	-27,152,292	8,059,733	-3,422,796

Valuation Reference	1998.12	1999.12	2000.12	2001.12	2002.12	2003.12	2004.06
가	14,434,000	13,596,000	7,821,000	2,868,000	14,198,000	59,682,000	22,302,000
가	0	0	0	0	0	0	0
가 (Equity Value))	14,434,000	13,596,000	7,821,000	2,868,000	14,198,000	59,682,000	22,302,000
(+) (Interest Bearing Debt)	220,098,290	171,382,066	175,258,979	22,450,148	0	0	0
가 (Firm Value)	234,532,290	184,978,066	183,079,979	25,318,148	14,198,000	59,682,000	22,302,000
(-) 가 (Non-Operating Asset)	59,608,323	60,571,771	18,687,176	19,750,357	28,990,725	36,756,060	32,448,505
가 (Total Invested Capital)	174,923,967	124,406,295	115,888,026	-24,276,815	-21,892,305	15,072,721	-21,706,443
	144,351,867	152,220,067	98,973,295	75,171,344	27,697,757	44,350,639	22,142,868
	3,322,944	22,534,986	-9,977,336	-1,825,479	-19,245,200	7,070,159	506,090
	-63,302,092	23,886,779	-119,773,653	107,312,626	-5,774,581	6,332,080	813,581
EBITDA	4,026,274	22,990,381	-9,597,884	-1,587,849	-19,035,994	7,133,076	557,344
EV/EBITDA Multiple	53.16	7.14	-18.74	-12.70	0.02	5.59	16.54
TIC/EBITDA Multiple	43.45	5.41	-12.07	15.29	1.15	2.11	-38.95

TIC/EBITDA Multiple EV/EBITDA Multiple

(3) NOA, IBD

가	13,063,032
가	20,720
	19,364,753
	32,448,505

	0
	0
	0
	0
	0
가	0

2.

(2)

(1) Forecasting – NOPLAT, IC

Assumptions (,%)	2004.12	2005.12	2006.12	2007.12	2008.12	2009.12
I.						
1. ()	52,281,750	52,281,750	52,281,750	52,281,750	52,281,750	52,281,750
	17.88	0.00	0.00	0.00	0.00	0.00
2. 가	41,344,225	41,344,225	41,344,225	41,344,225	41,344,225	41,344,225
가	79.08	79.08	79.08	79.08	79.08	79.08
< >	1998.12	1999.12	2000.12	2001.12	2002.12	2003.12
	91.35	81.52	103.57	98.31	150.79	74.95
	86.18	79.98	82.43	80.03	82.77	84.26
	#DIV/0!	93.79	90.63	88.97	121.51	82.91
	90.25	92.56	92.05	93.03	93.46	92.80
	#DIV/0!	112.58	98.90	80.56	86.54	86.37
	90.71	91.24	90.16	91.16	88.27	88.28
	#DIV/0!	94.03	90.83	86.75	94.51	86.92
3.	5,322,051	5,321,273	5,418,599	5,520,137	5,625,959	5,736,215
	10.18	10.18	10.36	10.56	10.76	10.97
< >	1998.12	1999.12	2000.12	2001.12	2002.12	2003.12
0	6.35	3.68	6.51	4.12	18.69	9.10
	6.93	9.88	9.91	7.32	8.34	7.38
	#DIV/0!	4.17	6.47	37.03	17.82	4.46
	4.71	3.38	3.51	3.42	3.38	3.04
	#DIV/0!	30.50	124.92	47.85	12.48	13.27
	3.73	5.32	6.36	5.32	6.30	6.83
	#DIV/0!	10.65	30.23	20.19	9.66	7.00
4. (2)						
(1)						
< >	1998.12	1999.12	2000.12	2001.12	2002.12	2003.12
0	#DIV/0!	#DIV/0!	#DIV/0!	3,758.57	1,384.89	#DIV/0!
	6.76	6.66	6.29	6.30	7.31	7.80
	0.00	4.51	1.69	1.63	2.35	3.48
	3.81	5.61	5.24	4.64	5.01	4.65
	0.00	2.16	0.33	0.90	1.54	0.97
	6.80	6.04	6.09	6.45	4.66	5.95
	3.47	5.00	3.93	3.98	4.17	4.57
	52,281,750	52,281,750	52,281,750	52,281,750	52,281,750	52,281,750
	-	-	-	-	-	-
5. (2)						
(1)						
< >	18,387,988	18,387,988	18,387,988	18,387,988	18,387,988	18,387,988
0	1998.12	1999.12	2000.12	2001.12	2002.12	2003.12
	1.74	1.66	1.49	1.83	0.83	2.20
	18.21	12.42	8.09	9.12	8.83	9.98
	0.00	4.16	1.40	1.22	3.19	277.90
	11.49	37.58	101.91	103.13	153.27	135.56
	0.00	3.05	0.29	0.41	1.13	1.79
	9.85	8.43	8.77	11.57	23.06	33.09
	7.91	13.13	24.09	25.09	37.90	91.66
	52,281,750	52,281,750	52,281,750	52,281,750	52,281,750	52,281,750
	18,387,988	18,387,988	18,387,988	18,387,988	18,387,988	18,387,988
6. (2)						
(1)						
< >	6,489,142	6,489,142	6,489,142	6,489,142	6,489,142	6,489,142
0	1998.12	1999.12	2000.12	2001.12	2002.12	2003.12
	4.21	4.10	2.46	3.20	4.97	11.54
	5.83	5.54	8.00	18.53	8.11	5.19
	0.00	14.21	5.42	4.22	3.44	6.37
	5.89	8.92	11.78	11.89	11.66	11.36
	0.00	13.51	2.26	7.22	11.97	9.42
	11.81	11.48	12.81	24.82	35.36	56.98
	4.71	10.73	8.05	13.34	14.11	17.86
	52,281,750	52,281,750	52,281,750	52,281,750	52,281,750	52,281,750
	6,489,142	6,489,142	6,489,142	6,489,142	6,489,142	6,489,142

II.

가	/	2,639,975	2,710,168	2,760,168	2,810,168	2,860,168	2,910,168
		642,450	642,450	642,450	642,450	642,450	642,450
		0	0	0	0	0	0
		496,307	496,307	496,307	496,307	496,307	496,307
		0	0	0	0	0	0
		5,783	5,783	5,783	5,783	5,783	5,783
		173,011	216,388	246,388	276,388	306,388	336,388
		1,322,424	1,349,240	1,369,240	1,389,240	1,409,240	1,429,240
		0	0	0	0	0	0
		70,193	50,000	50,000	50,000	50,000	50,000
가	/	0					
		0					
		0					
		0					
		0	0	0	0	0	0
		43,377	30,000	30,000	30,000	30,000	30,000
		26,816	20,000	20,000	20,000	20,000	20,000
		0					
		2,710,168	2,760,168	2,810,168	2,860,168	2,910,168	2,960,168
		642,450	642,450	642,450	642,450	642,450	642,450
가	/	0	0	0	0	0	0
		496,307	496,307	496,307	496,307	496,307	496,307
		0	0	0	0	0	0
		5,783	5,783	5,783	5,783	5,783	5,783
		216,388	246,388	276,388	306,388	336,388	366,388
		1,349,240	1,369,240	1,389,240	1,409,240	1,429,240	1,449,240
		0	0	0	0	0	0
		1,489,970	1,563,837	1,637,751	1,707,217	1,774,319	1,840,203
		87,504	101,005	114,676	128,517	142,531	156,720
		0	0	0	0	0	0
가	/	5,782	5,782	5,783	5,783	5,783	5,783
		168,342	180,229	203,302	229,499	257,411	286,265
		1,228,342	1,276,820	1,313,991	1,343,419	1,368,594	1,391,435
		0	0	0	0	0	0
		73,867	73,914	69,465	67,102	65,884	65,297
		13,501	13,670	13,841	14,014	14,189	14,367
		-	-	-	-	-	-
		0	0	0	0	0	0
		11,887	23,073	26,197	27,912	28,854	29,371
		48,478	37,171	29,427	25,175	22,841	21,560
가	/	-	-	-	-	-	-
		1,563,837	1,637,751	1,707,217	1,774,319	1,840,203	1,905,500
		101,005	114,676	128,517	142,531	156,720	171,087
		0	0	0	0	0	0
		5,782	5,783	5,783	5,783	5,783	5,783
		180,229	203,302	229,499	257,411	286,265	315,635
		1,276,820	1,313,991	1,343,419	1,368,594	1,391,435	1,412,995
		0	0	0	0	0	0
		503,881	479,967	460,501	443,399	427,515	412,218
		395,302	381,631	367,790	353,776	339,587	325,220
가	/	0	0	0	0	0	0
		1	0	0	0	0	0
		36,159	43,086	46,889	48,977	50,123	50,753
		72,420	55,249	45,821	40,646	37,805	36,245
		0	0	0	0	0	0

(2)

Balance Sheet (,%)		2003.12 (Latest)	2004.12	2005.12	2006.12	2007.12	2008.12
가	가	19,815,404	16,983,730	21,565,574	26,073,256	30,505,892	34,861,616
	가	-	20,720	20,720	20,720	20,720	20,720
		-	-	-	-	-	-
		7,853,219	11,580,658	11,580,658	11,580,658	11,580,658	11,580,658
		14,253,981	18,387,988	18,387,988	18,387,988	18,387,988	18,387,988
		41,922,604	46,973,096	51,554,940	56,062,622	60,495,258	64,850,982
가		16,940,656	19,364,753	19,364,753	19,364,753	19,364,753	19,364,753
		1,150,005	1,146,331	1,122,417	1,102,951	1,085,849	1,069,965
*		642,450	642,450	642,450	642,450	642,450	642,450
		-	-	-	-	-	-
		-	-	-	-	-	-
		-	-	-	-	-	-
		18,090,661	20,511,084	20,487,170	20,467,704	20,450,602	20,434,718
		60,013,265	67,484,180	72,042,110	76,530,326	80,945,860	85,285,700
		4,198,484	6,489,142	6,489,142	6,489,142	6,489,142	6,489,142
		-	-	-	-	-	-
		-	-	-	-	-	-
		-	-	-	-	-	-
		6,989,809	8,417,457	8,417,457	8,417,457	8,417,457	8,417,457
		11,188,293	14,906,599	14,906,599	14,906,599	14,906,599	14,906,599
		-	-	-	-	-	-
		-	-	-	-	-	-
		77,120	84,832	93,315	102,647	112,911	124,203
		- 1 -	1 -	1 -	1 -	1 -	1
		77,119	84,831	93,314	102,646	112,910	124,202
		-	-	-	-	-	-
		11,265,413	14,991,430	14,999,913	15,009,245	15,019,509	15,030,801
		44,455,433	44,455,433	44,455,433	44,455,433	44,455,433	44,455,433
		-	-	-	-	-	-
		-	-	-	-	-	-
		4,338,908	8,079,464	12,628,910	17,107,795	21,513,065	25,841,614
		46,488 -	42,147 -	42,147 -	42,147 -	42,147 -	42,147
		48,747,853	52,492,750	57,042,196	61,521,081	65,926,351	70,254,900
		1 OK	OK	OK	OK	OK	OK
Income Statement (,%)		2003.12 (Latest)	2004.12	2005.12	2006.12	2007.12	2008.12
가		44,350,639	52,281,750	52,281,750	52,281,750	52,281,750	52,281,750
		33,242,906	41,344,225	41,344,225	41,344,225	41,344,225	41,344,225
		11,107,733	10,937,525	10,937,525	10,937,525	10,937,525	10,937,525
		4,037,574	5,322,051	5,321,273	5,418,599	5,520,137	5,625,959
		7,070,159	5,615,474	5,616,252	5,518,926	5,417,388	5,311,566
		1,107,890	817,138	658,846	658,846	658,846	658,846
		249,353	-	-	-	-	-
		484,853	-	-	-	-	-
가		1,111,763	1,111,764	-	-	-	-
		6,332,080	5,320,848	6,275,098	6,177,772	6,076,234	5,970,412
		-	-	-	-	-	-
		-	-	-	-	-	-
		6,332,080	5,320,848	6,275,098	6,177,772	6,076,234	5,970,412
		-	1,580,292	1,725,652	1,698,887	1,670,964	1,641,863
		6,332,080	3,740,556	4,549,446	4,478,885	4,405,270	4,328,549
		62,917	73,867	73,914	69,465	67,102	65,884
* 가							

3. (DCF 3)

Free Cash Flow (,%)	2003.12 (Latest)	2004.12	2005.12	2006.12	2007.12	2008.12
가	7,070,159	5,615,474	5,616,252	5,518,926	5,417,388	5,311,566
	484,853	-	-	-	-	-
EBIT	6,585,306	5,615,474	5,616,252	5,518,926	5,417,388	5,311,566
EBITDA	7,133,076	5,689,341	5,690,166	5,588,391	5,484,490	5,377,451
EBITDA SELECTION	5,565,968					
()	-	1,580,292	1,725,652	1,698,887	1,670,964	1,641,863
	-	29.7	27.5	27.5	27.5	27.5
	-	-	-	-	-	-
	-	87,504	181,183	181,183	181,183	181,183
가	-	1,667,796	1,544,469	1,517,705	1,489,782	1,460,687
NOPLAT	6,585,306	3,947,679	4,071,783	4,001,221	3,927,606	3,850,886
가	62,917	73,867	73,914	69,465	67,102	65,884
가	484,853	-	-	-	-	-
	7,133,076	4,021,546	4,145,697	4,070,687	3,994,708	3,916,770
가	-	1,050,822	4,135,428	8,483	9,332	10,265
가	120,292	70,193	50,000	50,000	50,000	50,000
가	-	-	-	-	-	-
가	-	-	-	-	-	-
Free Cash Flow	930,530	4,205,621	41,517	40,668	39,735	38,709
Terminal Growth	8,063,606	184,075	4,104,180	4,030,018	3,954,973	3,878,062
	1,107,890	574,448	477,663	477,663	477,663	477,663
	1,111,763	781,570	-	-	-	-
	-	-	-	-	-	-
	-	-	-	-	-	-
	8,059,733	391,198	4,581,844	4,507,681	4,432,636	4,355,724
가	-	386,857	4,581,844	4,507,681	4,432,636	4,355,724
가 가	-	2,831,674	4,581,844	4,507,681	4,432,636	4,355,724
가		20,720	-	-	-	-
가		2,424,097	-	-	-	-
가		-	-	-	-	-
가		-	-	-	-	-
가		-	-	-	-	-
가		-	-	-	-	-

4. WACC (DCF 4)

Key Reference		Levered Beta	Market Cap	Net Debt	Unlevered Beta	
1 () (60)	7.70	0.4353	56.18	43.82	0.2827	
	6.07	(26150)	0.4548	12,262,400	9,000,000	0.3016
	8.90	(7720)	0.2005	13,743,543	17,857,772	0.1056
	0.2827	(11560)	0.4755	6,750,000	-	#VALUE!
		(17000)	0.5622	17,168,637	6,815,922	0.4410
(Default Risk 5%)	8.59	(35890)	-0.1742	12,602,677	14,635,000	-0.0966
		0.4058	14,391,527	11,224,565	0.2827	
Cost of Capital						
		가			가	
-1 -2 -3	-	#DIV/0!	7.00	#DIV/0!		
	-	#DIV/0!		#DIV/0!		
	-	#DIV/0!		#DIV/0!		
		#DIV/0!		#DIV/0!		
		#DIV/0!		#DIV/0!		
		#DIV/0!		#DIV/0!		
		#DIV/0!		#DIV/0!		
		#DIV/0!		#DIV/0!		
		7,908,000	7.00	#DIV/0!	43.82	#DIV/0!
		-		8.59	56.18	4.82
	7,908,000		0.00		#DIV/0!	
가						8.59

5. EBITDA (Multiple 3)**6. Multiple (Multiple 4)****(1) Market Multiple**

	<u>2003.12.</u> <u>026150</u>	<u>2003.12.</u> <u>007720</u>	<u>2003.12.</u> <u>011560</u>	<u>2003.12.</u> <u>017000</u>	<u>2003.12.</u> <u>035890</u>
Balance Sheet					
Total Assets	63,968,507	106,760,399	32,405,895	162,200,213	74,577,153
Total Debt	35,613,133	51,646,557	14,501,968	43,778,226	34,193,065
Total Equity	28,355,373	55,113,842	17,903,927	118,421,987	40,384,087
Non Operating Asset	23,944,827	47,279,697	1,666,666	44,568,841	10,043,084
Interest Bearing Debt	9,000,000	17,857,772	0	6,815,922	14,635,000
Net Operating Asset	13,410,547	25,691,917	16,237,261	80,669,068	44,976,004
Income Statement					
Revenue	72,145,348	113,039,043	91,292,658	46,509,278	117,144,639
EBIT	6,031,679	14,276,602	3,798,315	170,010	5,734,309
EBITDA	12,799,030	14,804,482	5,229,125	2,067,559	8,225,754
Corporate Value					
Common Stock					
Stock Price	1,916	3,545	1,250	324	516
Stock #	6,400,000	3,876,881	5,400,000	52,989,620	24,423,792
Preferred Stock					
Stock Price	-	-	-	-	-
Stock #-1	-	-	-	-	-
Total Stock Value	12,262,400	13,743,543	6,750,000	17,168,637	12,602,677
Interest Bearing Debt	9,000,000	17,857,772	-	6,815,922	14,635,000
Total Value	21,262,400	31,601,315	6,750,000	23,984,559	27,237,677
Non Operating Asset	23,944,827	47,279,697	1,666,666	44,568,841	10,043,084
Total Invested Capital	- 2,682,427 -	15,678,382	5,083,334 -	20,584,282	17,194,593
Index					
EBITDA	12,799,030	14,804,482	5,229,125	2,067,559	8,225,754
EBIT	6,031,679	14,276,602	3,798,315	170,010	5,734,309
Revenue	72,145,348	113,039,043	91,292,658	46,509,278	117,144,639
Net Operating Asset	13,410,547	25,691,917	16,237,261	80,669,068	44,976,004
Multiple					
EBITDA Multiple	- 0.2 -	1.1	1.0 -	10.0	2.1
EBIT Multiple	- 0.4 -	1.1	1.3 -	121.1	3.0
Revenue Multiple	- -	0.1	0.1 -	0.4	0.1
Net Operating Asset Multiple	- 0.2 -	0.6	0.3 -	0.3	0.4
PER (High)	3.0	1.0	4.0	145.0	2.0
PER (Low)	3.0 -		2.0	23.0	1.0
PER (FY End)	3.0 -		3.0	23.0	1.0

Multiple SelectionEBITDA Multiple Selected **1.6****(2) Historical Multiple**

7. 가 (5)

(1) 가

1) DCF

Value of Operating	Free Cash Flow	() 12	2
2004.12	-184,075	0.9864	-181,565
2005.12	4,104,180	0.9084	3,728,108
2006.12	4,030,018	0.8365	3,371,270
2007.12	3,954,973	0.7704	3,046,875
2008.12	3,878,061	0.7095	2,751,379
2009.12	3,798,667	0.6534	2,481,942
2010.12	3,716,370	0.6017	2,236,165
2011.12	3,630,851	0.5541	2,011,954
2012.12	3,541,839	0.5103	1,807,436
2013.12	3,449,081	0.4700	1,620,922
가	3,878,061	8.2628	32,043,472
가			43,629,082

$$\begin{aligned}
 & \text{FCF 가} + \text{가 (CV) 가} = \text{가} \\
 & \text{PV}(2004.12. \sim 2008.12. \text{ FCF}) + \text{PV}(3,878,061 \text{ 가}) \\
 & = (-181,565 + 3,728,108 + 3,371,270 + 3,046,875 + 2,751,379) + 32,043,472 \\
 & = 43,629,082
 \end{aligned}$$

WACC

		Growth rate %					
가	43,629,082	-	0.50	1.00	1.50	2.00	2.50
WACC %	4.59	83,232,089	6,003,056	9,715,344	10,874,716	11,440,797	11,776,213
	6.59	57,429,309	5,443,240	9,108,667	10,218,251	10,754,150	11,069,889
	8.59	43,629,082	4,941,950	8,575,796	9,639,984	10,148,210	10,445,915
	10.59	35,042,732	4,486,487	8,104,286	9,127,073	9,609,885	9,891,033
	12.59	29,192,574	4,066,241	7,684,099	8,669,133	9,128,573	9,394,494
	14.59	24,957,390	3,672,137	7,307,098	8,257,719	8,695,637	8,947,535
	16.59	21,755,225	3,296,153	6,966,651	7,885,932	8,304,006	8,542,968

		Growth rate %					
가	856	-	0.50	1.00	1.50	2.00	2.50
WACC %	4.59	1,301	432	474	487	494	497
	6.59	1,011	426	467	480	486	489
	8.59	856	421	461	473	479	482
	10.59	759	415	456	468	473	476
	12.59	693	411	451	462	468	471
	14.59	646	406	447	458	463	466
	16.59	610	402	443	454	458	461

WACC 8.59% 가 ,
15~16% WACC

2) Market Multiple

$$\text{EBITDA} * \text{Market Multiple} = 5,565,968 * 1.6 = 8,627,250$$

3) Historical Multiple

4) EV/EBITDA Multiple

5) EV/EBITDA Historical Multiple

(2) 가

(:)

	DCF	Market Multiple	Historical Multiple	EV/EBITDA H.M.
1. 가 : TIC	43,629,082	8,627,250		
2. 가 : NOA	32,448,505	32,448,505		
3. 가 (1+2) : FV	76,077,587	41,075,755		

(3) 가

(: ,)

	DCF	Market Multiple	Historical Multiple	EV/EBITDA H.M.
1. 가 : FV	76,077,587	41,075,755		
2. 가 : IBD	-	-		
3. 가 (1-2) : EV	76,077,587	41,075,755		
4.	88,910,866	88,910,866		
5. 가 (3÷4)	856	462		

. EVA 가

1 , 2 5 WACC DCF , 3 WACC EVA(EP) , 4 WACC

	1998.12	1999.12	2000.12	2001.12	2002.12	2003.12
NOPLAT	- 11,684,897	- 981,912	- 42,060,444	- 3,769,627	- 28,124,973	- 6,585,306
ROIC=NOPLAT/IC		0.78	36.38	9.58	418.10	48.89
IC * WACC		10,789,305	9,926,394	3,377,155	577,596	1,156,595
IC()		125,655,825	115,606,076	39,331,469	6,726,869	13,470,093
WACC	8.59	8.59	8.59	8.59	8.59	8.59
EVA(EP) = NOPLAT - IC*WACC	-	11,771,217	51,986,839	7,146,782	28,702,569	5,428,711

가 가

	2003.12 (Latest)	2004.12	2005.12	2006.12	2007.12	2008.12
NOPLAT	6,585,306	3,947,679	4,071,783	4,001,221	3,927,606	3,850,886
ROIC=NOPLAT/IC	48.89	95.39	89.63	88.71	87.64	86.45
IC * WACC	1,156,595	355,354	390,070	387,289	384,816	382,466
IC()	13,470,093	4,138,574	4,542,889	4,510,491	4,481,695	4,454,328
WACC	8.59	8.59	8.59	8.59	8.59	8.59
EVA(EP) = NOPLAT - IC*WACC	5,428,711	3,592,324	3,681,712	3,613,933	3,542,790	3,468,419
PVIF		0.9864	0.9084	0.8365	0.7704	0.7095
MVA	43,759,676	3,543,341	3,344,351	3,023,198	2,729,334	2,460,749
IC	4,138,574					28,658,702
Operating Value(MVA + IC)	47,898,250					
(+)NOA	32,448,505					
FV	80,346,755					
(-)IBD	-					
Equity Value	80,346,755					
(÷) Outstanding Shares	88,910,866					
Equity Value Per Share	904					

IX.

1. NOA, IBD (1)

(1)

Balance Sheet (,%)	1996.12	1997.12	1998.12	1999.12	2000.12	2001.12	2002.03
가	42,350,944	132,518,537	8,081,181	9,282,599	28,381,404	22,364,937	28,335,981
가	1,561,175	511,715	1,170,305	0	0	0	0
	140,613,331	221,079,900	81,682,255	93,017,609	115,649,537	107,953,586	92,435,887
	27,627,235	50,803,567	156,049,754	20,244,332	23,381,704	8,122,777	7,621,076
	146,902,016	196,593,042	70,037,674	50,299,693	45,313,186	51,440,808	57,032,526
	359,054,701	601,506,761	317,021,169	172,844,233	212,725,831	189,882,108	185,425,470
	106,128,154	100,335,870	60,814,384	50,813,044	40,159,162	48,212,429	50,463,014
가	18,587,486	55,537,949	55,497,497	205,285,663	189,158,955	184,207,649	183,865,688
*	3,665,908	6,594,415	11,116,854	144,185,457	133,562,035	129,002,437	129,002,437
	36,883,096	0	0	0	0	0	2,727
	1,583,555	2,909,313	937,483	1,261,134	814,659	221,211	425,898
	176,731	3,994,905	1,475,626	0	0	0	0
	163,359,022	162,778,037	118,724,990	257,359,841	230,132,776	232,641,289	234,757,327
	522,413,723	764,284,798	435,746,159	430,204,074	442,858,607	422,523,397	420,182,797
	107,962,805	231,795,334	63,278,762	65,696,004	73,633,756	61,378,494	54,328,433
	12,973,604	177,534,627	206,329,583	19,390,753	11,698,674	3,459,423	5,449,621
	2,111,600	0	0	0	0	0	0
	29,576,553	67,640,300	78,817,811	0	0	0	0
	54,780,010	38,257,174	11,686,572	15,845,049	24,701,742	25,405,060	21,823,996
	207,404,572	515,227,435	360,112,728	100,931,806	110,034,172	90,242,977	81,602,050
	130,624,390	116,572,164	73,788,227	67,769,543	38,683,188	30,776,029	29,670,356
	28,305,642	23,441,565	429,686,039	145,342,479	160,082,656	156,319,111	155,607,013
	5,950,671	5,886,266	4,738,299	11,313,978	13,246,442	16,800,392	17,243,177
	12,950,290	13,874,374	10,470,235	33,787,556	31,788,070	28,783,827	29,624,575
	177,830,993	159,774,369	518,682,800	258,213,556	243,800,356	232,679,359	232,145,121
	0	0	0	0	0	0	0
	385,235,565	675,001,803	878,795,528	359,145,362	353,834,529	322,922,337	313,747,172
	28,788,190	28,788,190	28,788,190	174,810,385	633,706,435	869,726,410	909,224,995
	0	0	0	0	0	0	0
	46,925,811	46,925,811	0	0	0	0	0
	54,437,734	7,275,055	-475,916,260	-734,346,493	-732,950,197	-727,912,618	-723,757,083
	7,026,423	6,293,938	4,078,701	630,594,820	188,267,840	-42,212,732	-79,032,287
	137,178,158	89,282,994	-443,049,369	71,058,712	89,024,078	99,601,060	106,435,625
OK		1 OK	OK	OK	OK	OK	OK

Income Statement (,%)	1996.12	1997.12	1998.12	1999.12	2000.12	2001.12	2002.03
가	578,683,687	824,553,773	489,007,215	416,501,163	522,911,300	501,672,524	104,826,607
	397,002,669	622,046,279	367,172,987	322,126,460	399,333,179	365,970,649	75,011,428
	181,681,018	202,507,494	121,834,228	94,374,703	123,578,121	135,701,875	29,815,179
	134,648,503	145,607,663	94,839,511	73,427,479	87,212,866	96,796,262	19,450,684
	47,032,515	56,899,831	26,994,717	20,947,224	36,365,255	38,905,613	10,364,495
	18,388,995	43,209,321	37,153,229	17,552,539	27,760,686	37,384,765	3,356,941
	38,976,912	56,416,487	112,646,265	57,808,290	37,041,137	27,210,794	4,998,935
가	3,195,982	58,986,249	23,480,410	41,775,734	16,358,421	29,125,415	2,065,676
	3,545,373	31,502,962	68,774,354	17,695,355	11,204,943	15,993,273	2,501,289
	19,703,243	-46,796,546	-140,753,083	-78,779,616	-478,560	3,960,896	4,155,536
	113,535	28,261	8,706	127,313,544	4,201,776	1,076,733	0
	33,306	0	393,857,207	456,349,489	2,326,920	50	0
	19,783,472	-46,768,285	-534,601,584	-407,815,561	1,396,296	5,037,579	4,155,536
	4,616,870	0	0	0	0	0	0
	15,166,602	-46,768,285	-534,601,584	-407,815,561	1,396,296	5,037,579	4,155,536
(가)	5,983,354	5,017,446	5,434,200	7,254,078	6,397,439	4,651,239	992,780

(2) Valuation Reference

Free Cash Flow (,%)	1996.12	1997.12	1998.12	1999.12	2000.12	2001.12	2002.03
	47,032,515	56,899,831	26,994,717	20,947,224	36,365,255	38,905,613	10,364,495
가	3,195,982	58,986,249	23,480,410	41,775,734	16,358,421	29,125,415	2,065,676
	0	0	0	0	0	0	0
EBIT	43,836,533	-2,086,418	3,514,307	-20,828,510	20,006,834	9,780,198	8,298,819
	4,616,870	0	0	0	0	0	0
()	23.34	0.00	0.00	0.00	0.00	0.00	0.00
	9,096,044	0	0	0	0	0	0
	3,464,057	0	0	0	0	0	0
	10,248,857	0	0	0	0	0	0
가	0	0	0	0	0	0	0
NOPLAT	33,587,676	-2,086,418	3,514,307	-20,828,510	20,006,834	9,780,198	8,298,819
가	5,983,354	5,017,446	5,434,200	7,254,078	6,397,439	4,651,239	992,780
가	3,195,982	58,986,249	23,480,410	41,775,734	16,358,421	29,125,415	2,065,676
	42,767,012	61,917,277	32,428,917	28,201,302	42,762,694	43,556,852	11,357,275
가		104,150,804	62,412,864	-138,901,034	20,413,791	23,300,396	985,586
가		5,084,813	5,393,748	157,042,244	-9,729,269	-300,067	653,546
가		1,325,758	-1,971,830	323,651	-446,475	-593,448	204,687
가		3,818,174	-2,519,279	-1,475,626	0	0	0
		114,379,549	63,315,503	16,989,235	10,238,047	22,406,881	1,843,819
Free Cash Flow		-52,462,272	-30,886,586	11,212,067	32,524,647	21,149,971	9,513,456
		43,209,321	37,153,229	17,552,539	27,760,686	37,384,765	3,356,941
		31,502,962	68,774,354	17,695,355	11,204,943	15,993,273	2,501,289
		28,261	8,706	127,313,544	4,201,776	1,076,733	0
		0	393,857,207	456,349,489	2,326,920	50	0
		-40,727,652	-456,356,212	-317,966,694	50,955,246	43,618,146	10,369,108

Valuation Reference	1996.12	1997.12	1998.12	1999.12	2000.12	2001.12	2002.03
가	118,116,176	62,757,070	12,540,662	89,236,792	56,132,370	145,575,153	232,568,567
가	14,921,035	5,882,634	931,385	987,436	586,901	1,259,076	1,158,306
가 (Equity Value))	133,037,212	68,639,704	13,472,047	90,224,228	56,719,270	146,834,229	233,726,872
(+) (Interest Bearing Debt)	203,591,789	385,188,656	788,621,660	232,502,775	210,464,518	215,959,623	190,726,990
가 (Firm Value)	336,629,001	453,828,360	802,093,707	322,727,003	267,183,788	362,793,852	424,453,862
(-) 가 (Non-Operating Asset)	176,106,333	283,657,974	224,945,319	80,339,975	91,922,270	78,700,143	86,420,071
가 (Total Invested Capital)	160,522,668	170,170,386	577,148,388	242,387,028	175,261,518	284,093,709	338,033,791
	578,683,687	824,553,773	489,007,215	416,501,163	522,911,300	501,672,524	104,826,607
	47,032,515	56,899,831	26,994,717	20,947,224	36,365,255	38,905,613	10,364,495
	15,166,602	-46,768,285	-534,601,584	-407,815,561	1,396,296	5,037,579	4,155,536
EBITDA	53,015,869	61,917,277	32,428,917	28,201,302	42,762,694	43,556,852	11,357,275
FV/EBITDA Multiple	6.35	7.33	24.73	11.44	6.25	8.33	37.37
TIC/EBITDA Multiple	3.03	2.75	17.80	8.59	4.10	6.52	29.76

(3) NOA, IBD

가	28,335,981
가	0
	7,621,076
	50,463,014
()	
가	86,420,071

가	190,554,563
	0
	0
가	190,554,563

2.

(2)

(1) Forecasting – NOPLAT, IC

Assumptions (,%)	2002.12.	2003.12.	2004.12.	2005.12.	2006.12.	2007.12.
I.						
1. ()	460,779,229	477,821,853	477,821,853	477,821,853	477,821,853	477,821,853
	-11.88	3.70	0.00	0.00	0.00	0.00
2. 가	340,068,492	334,475,297	334,475,297	334,475,297	334,475,297	334,475,297
가	73.80	70.00	70.00	70.00	70.00	70.00
< >	1996.12	1997.12	1998.12	1999.12	2000.12	2001.12
	68.60	75.44	75.09	77.34	76.37	72.95
	86.40	84.35	85.94	87.69	88.65	87.92
	55.92	61.90	71.23	61.92	59.32	53.79
	88.03	84.72	78.10	85.15	86.58	86.98
	56.16	59.73	53.82	56.83	52.42	48.84
	62.65	62.80	61.02	62.55	57.14	57.01
	69.83	70.70	70.02	70.83	68.82	66.90
3.	87,101,545	88,578,457	88,136,779	89,743,866	91,325,642	93,058,557
	18.90	18.54	18.45	18.78	19.11	19.48
< >	1996.12	1997.12	1998.12	1999.12	2000.12	2001.12
	23.27	17.66	19.39	17.63	16.68	19.29
	8.76	7.76	6.33	7.33	7.35	7.44
	36.50	34.71	28.58	33.11	31.08	38.28
	7.85	10.57	7.87	9.55	7.76	8.74
	26.24	28.78	31.08	24.22	25.90	27.60
	29.94	27.09	25.97	24.07	29.75	26.29
	21.86	21.78	19.97	19.66	20.37	21.67
4. (2)						
(1)	110,000,000	110,000,000	110,000,000	110,000,000	110,000,000	110,000,000
< >	1996.12	1997.12	1998.12	1999.12	2000.12	2001.12
	0.00	4.56	3.23	4.77	5.01	4.49
	33.92	36.85	40.84	57.19	73.29	69.22
	7.29	7.83	8.71	8.38	8.21	7.00
	29.93	20.56	28.18	21.45	19.14	21.21
	6.94	5.51	3.69	4.82	4.34	3.90
	1.52	1.75	1.68	2.97	2.10	3.22
	15.92	14.50	16.62	18.96	21.42	20.91
	460,779,229	244,555,469	283,803,638	321,939,702	358,981,178	394,823,476
	-	-	-	-	-	-
5. (2)						
(1)	49,372,997	51,119,263	53,040,155	53,040,155	53,040,155	53,040,155
< >	1996.12	1997.12	1998.12	1999.12	2000.12	2001.12
	0.00	4.80	3.67	6.92	10.94	10.37
	8.43	16.79	33.64	46.54	38.31	45.54
	2.38	2.42	2.72	4.16	5.51	4.09
	21.43	13.52	18.61	19.32	14.31	13.77
	10.05	13.13	12.07	22.08	24.02	28.69
	8.27	9.54	8.88	8.61	4.49	6.09
	10.11	11.08	15.18	20.14	17.33	19.64
	460,779,229	244,555,469	283,803,638	321,939,702	358,981,178	394,823,476
	141,321,917	178,253,738	234,816,972	295,040,500	181,259,488	221,067,195
6. (2)						
(1)	73,633,756	73,633,756	73,633,756	73,633,756	73,633,756	73,633,756
< >	1996.12	1997.12	1998.12	1999.12	2000.12	2001.12
	0.00	4.85	3.31	6.46	7.51	7.43
	18.74	13.81	13.52	16.76	30.86	31.44
	16.22	19.94	22.93	20.06	19.81	18.51
	35.37	31.35	40.14	22.55	21.28	35.01
	13.65	12.18	8.38	7.49	6.56	9.34
	8.69	8.17	9.70	15.54	10.04	15.44
	18.53	17.09	18.94	16.48	17.71	21.95
	460,779,229	244,555,469	283,803,638	321,939,702	358,981,178	394,823,476
	610,994	407,329	203,664	- 1	- 1	- 1

II.

가

218,390,437	218,390,437	219,854,237	221,470,436	222,286,590	223,182,518
129,002,437	129,002,437	129,002,437	129,002,437	129,002,437	129,002,437
0	0	0	0	0	0
53,432,000	53,432,000	53,432,000	53,432,000	53,432,000	53,432,000
6,006,000	6,006,000	6,006,000	6,006,000	6,006,000	6,006,000
15,360,000	15,360,000	15,991,000	16,662,857	17,228,411	17,827,449
434,000	434,000	459,200	486,673	511,614	530,034
14,156,000	14,156,000	14,963,600	15,880,468	16,106,127	16,384,598
0	0	0	0	0	0

/

0	1,463,800	1,616,199	816,154	895,929	591,364
	631,000	671,857	565,554	599,038	356,250
	25,200	27,473	24,941	18,420	14,024
	807,600	916,868	225,659	278,471	221,089

가

218,390,437	219,854,237	221,470,436	222,286,590	223,182,518	223,773,882
129,002,437	129,002,437	129,002,437	129,002,437	129,002,437	129,002,437
0	0	0	0	0	0
53,432,000	53,432,000	53,432,000	53,432,000	53,432,000	53,432,000
6,006,000	6,006,000	6,006,000	6,006,000	6,006,000	6,006,000
15,360,000	15,991,000	16,662,857	17,228,411	17,827,449	18,183,700
434,000	459,200	486,673	511,614	530,034	544,058
14,156,000	14,963,600	15,880,468	16,106,127	16,384,598	16,605,687
0	0	0	0	0	0

가

34,183,000	39,115,000	44,033,511	46,575,671	49,034,467	51,257,011
8,371,000	9,758,000	11,145,000	12,117,601	13,067,832	13,996,208
4,541,000	5,415,000	6,006,000	6,006,000	6,006,000	6,006,000
9,354,000	10,616,000	11,959,715	13,090,823	14,089,219	14,979,845
203,000	266,000	334,683	397,035	443,086	478,146
11,714,000	13,060,000	14,588,114	14,964,212	15,428,330	15,796,811
0	0	0	0	0	0

가

4,932,000	4,918,511	2,542,160	2,458,796	2,222,544	2,032,198
1,387,000	1,387,000	972,601	950,231	928,376	907,023
874,000	591,000	-	-	-	-
1,262,000	1,343,715	1,131,108	998,396	890,626	783,664
63,000	68,683	62,353	46,051	35,060	26,564
1,346,000	1,528,114	376,098	464,118	368,482	314,947
-	-	-	-	-	-

가

39,115,000	44,033,511	46,575,671	49,034,467	51,257,011	53,289,209
9,758,000	11,145,000	12,117,601	13,067,832	13,996,208	14,903,231
5,415,000	6,006,000	6,006,000	6,006,000	6,006,000	6,006,000
10,616,000	11,959,715	13,090,823	14,089,219	14,979,845	15,763,509
266,000	334,683	397,035	443,086	478,146	504,710
13,060,000	14,588,114	14,964,212	15,428,330	15,796,811	16,111,759
0	0	0	0	0	0

가

50,273,000	46,818,289	45,892,328	44,249,686	42,923,071	41,482,236
43,674,000	42,287,000	41,314,399	40,364,168	39,435,792	38,528,769
591,000	0	0	0	0	0
4,744,000	4,031,286	3,572,034	3,139,192	2,847,604	2,420,191
168,000	124,517	89,638	68,528	51,888	39,348
1,096,000	375,486	916,256	677,798	587,786	493,928
0	0	0	0	0	0

(2)

Balance Sheet (,%)	2001.12 (Latest)	2002.12.	2003.12.	2004.12.	2005.12.	2006.12.
가	22,364,937	141,321,917	178,253,738	234,816,972	295,040,500	181,259,488
가	-	-	-	-	-	-
	107,953,586	110,000,000	110,000,000	110,000,000	110,000,000	110,000,000
	8,122,777	7,621,076	7,621,076	7,621,076	7,621,076	7,621,076
	51,440,808	49,372,997	51,119,263	53,040,155	53,040,155	53,040,155
	189,882,108	308,315,990	346,994,076	405,478,204	465,701,731	351,920,719
	48,212,429	50,463,014	50,463,014	50,463,014	50,463,014	50,463,014
가	184,207,649	179,275,437	175,820,726	174,894,765	173,252,123	171,925,508
*	129,002,437	129,002,437	129,002,437	129,002,437	129,002,437	129,002,437
	-	-	-	-	-	-
	221,211	610,994	407,329	203,664	1	1
	-	-	-	-	-	-
	232,641,289	230,349,445	226,691,069	225,561,442	223,715,136	222,388,521
	422,523,397	538,665,435	573,685,145	631,039,646	689,416,867	574,309,240
	61,378,494	73,633,756	73,633,756	73,633,756	73,633,756	73,633,756
	3,459,423	5,449,621	15,000,000	15,000,000	15,000,000	15,000,000
	-	-	-	-	-	-
	-	-	-	-	-	-
	25,405,060	21,823,996	21,823,996	21,823,996	21,823,996	21,823,996
	90,242,977	100,907,373	110,457,752	110,457,752	110,457,752	110,457,752
	30,776,029	29,670,356	-	-	-	-
	156,319,111	155,607,013	170,079,855	186,289,437	204,444,170	50,000,000
	16,800,392	17,243,177	18,967,495	20,864,244	22,950,669	25,245,735
	28,783,827	29,624,575	29,624,575	29,624,575	29,624,575	29,624,575
	232,679,359	232,145,121	218,671,924	236,778,256	257,019,413	104,870,310
	-	-	-	-	-	-
	322,922,337	333,052,494	329,129,676	347,236,008	367,477,165	215,328,062
	869,726,410	909,224,995	909,224,995	909,224,995	909,224,995	909,224,995
	-	-	-	-	-	-
	-	-	-	-	-	-
-	727,912,618	703,612,054	664,669,526	625,421,357	587,285,293	550,243,817
-	42,212,732	-	-	-	-	-
	99,601,060	205,612,941	244,555,469	283,803,638	321,939,702	358,981,178
OK	OK	OK	OK	OK	OK	OK

Income Statement (,%)	2001.12 (Latest)	2002.12.	2003.12.	2004.12.	2005.12.	2006.12.
가	501,672,524	460,779,229	477,821,853	477,821,853	477,821,853	477,821,853
	365,970,649	340,068,492	334,475,297	334,475,297	334,475,297	334,475,297
	135,701,875	120,710,737	143,346,556	143,346,556	143,346,556	143,346,556
	96,796,262	87,101,545	88,578,457	88,136,779	89,743,866	91,325,642
	38,905,613	33,609,192	54,768,099	55,209,777	53,602,689	52,020,914
	37,384,765	1,507,230	1,507,230	1,507,230	1,507,230	1,507,230
	27,210,794	-	-	-	-	-
가	29,125,415	-	-	-	-	-
	15,993,273	-	-	-	-	-
	3,960,896	35,116,422	56,275,329	56,717,007	55,109,919	53,528,144
	1,076,733	-	-	-	-	-
	50	-	-	-	-	-
	5,037,579	35,116,422	56,275,329	56,717,007	55,109,919	53,528,144
	-	10,815,858	17,332,801	17,468,838	16,973,855	16,486,668
	5,037,579	24,300,564	38,942,528	39,248,169	38,136,064	37,041,476
* 가	4,651,239	4,932,000	4,918,511	2,542,160	2,458,796	2,222,544

3. (DCF 3)

Free Cash Flow (,%)	2001.12 (Latest)	2002.12.	2003.12.	2004.12.	2005.12.	2006.12.
	38,905,613	33,609,192	54,768,099	55,209,777	53,602,689	52,020,914
가	29,125,415	-	-	-	-	-
EBIT	9,780,198	33,609,192	54,768,099	55,209,777	53,602,689	52,020,914
EBITDA	43,556,852	38,541,192	59,686,610	57,751,937	56,061,485	54,243,458
EBITDA SELECTION	51,119,615					
()	-	10,815,858	17,332,801	17,468,838	16,973,855	16,486,668
	-	30.8	30.8	30.8	30.8	30.8
	-	-	-	-	-	-
	-	464,227	464,227	464,227	464,227	464,227
가	-	10,351,631	16,868,575	17,004,611	16,509,628	16,022,442
NOPLAT	9,780,198	23,257,561	37,899,525	38,205,166	37,093,061	35,998,472
가	4,651,239	4,932,000	4,918,511	2,542,160	2,458,796	2,222,544
가	29,125,415	-	-	-	-	-
	43,556,852	28,189,561	42,818,036	40,747,326	39,551,857	38,221,016
가	23,300,396	10,480,829	21,948	24,143	2,086,424	2,295,067
가	300,067	212	1,463,800	1,616,199	816,154	895,929
가	593,448	389,783	203,666	203,665	203,665	-
가	-	-	-	-	-	-
Free Cash Flow	22,406,881	10,091,258	1,282,082	1,436,677	1,473,935	1,399,138
Terminal Growth	21,149,971	38,280,818	41,535,953	39,310,649	41,025,792	39,620,154
	-					
	37,384,765	1,043,003	1,043,003	1,043,003	1,043,003	1,043,003
	15,993,273	-	-	-	-	-
	1,076,733	-	-	-	-	-
	50	-	-	-	-	-
	43,618,146	39,323,822	42,578,956	40,353,652	42,068,795	40,663,158
가		81,536,553	42,578,956	40,353,652	42,068,795	40,663,158
가 가		118,956,980	36,931,821	56,563,235	60,223,528	113,781,012
가		-	-	-	-	-
가		2,250,585	-	-	-	-
가		-	-	-	-	-
가		172,427	5,647,135	16,209,583	18,154,732	154,444,170
가		39,498,585	-	-	-	-
가		-	-	-	-	-

4. WACC (DCF 4)

Key Reference		Levered Beta		Market Cap	Net Debt	Unlevered Beta	
1 ((60) (Default Risk 5%)		7.70		0.5956	48,593,971	10,230,042	0.5199
		6.07	(09970)	0.6395	85,600,677	25,749,108	0.5293
		8.90	(04620)	0.4844	30,571,970	-	0.4844
		0.5956	(07980)	0.6089	29,609,266	4,941,017	0.5459
			(20000)	0.8364	189,764,369	31,949,778	0.7491
		16.37	(07700)	1.0262	56,828,914	20,861,520	0.8183
				0.5776	48,593,971	10,230,042	0.5199
Cost of Capital		가		가			
		3,459,423	0.32	13.00	9.00	0.03	
		156,319,111	14.27	13.00	9.00	1.28	
		30,776,029	2.81	13.00	9.00	0.25	
			0.00		0.00	0.00	
			0.00		0.00	0.00	
-1			0.00		0.00	0.00	
-2			0.00		0.00	0.00	
-3			0.00		0.00	0.00	
		905,157,890	82.61	13.00	16.37	13.52	
		-	0.00		0.00	0.00	
		1,095,712,453	100.00				
가		16.37					

5. EBITDA (Multiple 3)

6. Multiple (Multiple 4)

(1) Market Multiple

	<u>2001.12.</u> <u>09970</u>	<u>2001.12.</u> <u>04620</u>	<u>2001.12.</u> <u>07980</u>	<u>2001.12.</u> <u>20000</u>	<u>2001.12.</u> <u>07700</u>
Balance Sheet					
Total Assets	237,614,099	96,182,778	86,441,948	189,352,248	137,963,402
Total Debt	64,345,913	21,340,997	19,892,899	71,550,621	49,486,141
Total Equity	173,268,186	74,841,781	66,549,049	117,801,626	88,477,261
Non Operating Asset	155,961,655	22,376,523	31,438,057	67,608,813	19,456,540
Interest Bearing Debt	25,749,108	0	4,941,017	31,949,778	20,861,520
Net Operating Asset	43,055,639	52,465,258	40,052,009	82,142,592	89,882,241
Income Statement					
Revenue	483,933,269	113,681,521	176,096,040	136,190,681	148,484,329
EBIT	22,494,393	9,020,154	7,538,336	32,086,682	24,801,673
EBITDA	25,299,852	11,569,042	10,753,380	38,027,588	29,092,728
Corporate Value					
Common Stock					
Stock Price	1,678	9,870	12,353	10,298	3,690
Stock #	51,014,336	3,097,358	2,397,000	18,426,868	15,400,000
Preferred Stock					
Stock Price	-	-	-	-	-
Stock #-1	-	-	-	-	-
Total Stock Value	85,600,677	30,571,970	29,609,266	189,764,369	56,828,914
Interest Bearing Debt	25,749,108	-	4,941,017	31,949,778	20,861,520
Total Value	111,349,785	30,571,970	34,550,283	221,714,147	77,690,434
Non Operating Asset	155,961,655	22,376,523	31,438,057	67,608,813	19,456,540
Total Invested Capital	- 44,611,870	8,195,447	3,112,226	154,105,334	58,233,894
Index					
EBITDA	25,299,852	11,569,042	10,753,380	38,027,588	29,092,728
EBIT	22,494,393	9,020,154	7,538,336	32,086,682	24,801,673
Revenue	483,933,269	113,681,521	176,096,040	136,190,681	148,484,329
Net Operating Asset	43,055,639	52,465,258	40,052,009	82,142,592	89,882,241
Multiple					
EBITDA Multiple	- 1.8	0.7	0.3	4.1	2.0
EBIT Multiple	- 2.0	0.9	0.4	4.8	2.3
Revenue Multiple	- 0.1	0.1	0.0	1.1	0.4
Net Operating Asset Multiple	- 1.0	0.2	0.1	1.9	0.6
PER (High)	-	-	-	-	-
PER (Low)	-	-	-	-	-
PER (FY End)	-	-	-	-	-
Multiple Selection					
EBITDA Multiple Selected	3.0				

(2) Historical Multiple

Valuation Reference	1990.12	1991.12	1992.12	1993.12	1994.12	1995.12	1996.12	1997.12	1998.12	1999.12	2000.12	2001.12	2002.03
가	25,856,290	19,036,556	22,429,960	54,503,874	91,115,322	123,387,102	118,116,176	62,757,070	12,540,662	89,236,792	56,132,370	145,575,153	232,568,567
가	6,079,802	13,233,118	14,432,559	23,615,605	27,470,193	17,871,473	14,921,035	5,882,634	931,385	987,436	586,901	1,259,076	1,158,306
가 (Equity Value))	31,936,092	32,269,674	36,862,519	78,119,479	118,585,516	141,258,575	133,037,212	68,639,704	13,472,047	90,224,228	56,719,270	146,834,229	233,726,872
(+) (Interest Bearing Debt)	45,422,873	69,644,021	111,326,076	125,700,683	126,258,938	171,260,185	203,591,789	385,188,656	788,621,660	232,502,775	210,464,518	215,959,623	190,726,990
가 (Firm Value)	77,358,965	101,913,695	148,188,595	203,820,162	244,844,454	312,518,760	336,629,001	453,828,360	802,093,707	322,727,003	267,183,788	362,793,852	424,453,862
(-) 가 (Non-Operating Asset)	64,894,806	80,271,855	105,618,366	114,972,545	126,978,929	172,995,885	176,106,333	283,657,974	224,945,319	80,339,975	91,922,270	78,700,143	86,420,071
가 (Total Invested Capital)	12,464,159	21,641,840	42,570,229	88,847,617	117,865,525	139,522,875	160,522,668	170,170,386	577,148,388	242,387,028	175,261,518	284,093,709	338,033,791
	72,119,878	107,534,490	167,807,331	222,712,451	359,814,951	477,821,853	578,683,687	824,553,773	489,007,215	416,501,163	522,911,300	501,672,524	104,826,607
	1,583,949	5,885,232	15,456,785	20,252,810	32,131,689	38,249,223	47,032,515	56,899,831	26,994,717	20,947,224	36,365,255	38,905,613	10,364,495
	2,165,005	2,535,580	5,317,030	8,016,349	13,150,594	14,414,270	15,166,602	-46,768,295	-534,601,584	-407,815,561	1,396,296	5,037,579	4,155,536
EBITDA	2,412,854	7,246,401	17,223,025	22,333,169	34,672,065	41,260,319	53,015,869	61,917,277	32,428,917	28,201,302	42,762,694	43,556,852	11,357,275
FV/EBITDA Multiple	32.06	14.06	8.60	9.13	7.06	7.57	6.35	7.33	24.73	11.44	6.25	8.33	9.34
TIC/EBITDA Multiple	5.17	2.99	2.47	3.98	3.40	3.38	3.03	2.75	17.80	8.59	4.10	6.52	7.44

1993~1996

Multiple

, 3.45 .

7. 가 (5)

(1) 가

1) DCF

Value of Operating	Free Cash Flow	() 12	2
2002.12.	38,280,818	0.9750	37,325,638
2003.12.	41,535,953	0.8379	34,802,170
2004.12.	39,310,649	0.7200	28,304,044
2005.12.	41,025,792	0.6187	25,383,493
2006.12.	39,620,154	0.5317	21,065,254
2007.12.	38,764,703	0.4569	17,711,002
2008.12.	37,621,782	0.3926	14,770,736
2009.12.	36,427,605	0.3374	12,289,933
2010.12.	35,161,935	0.2899	10,194,075
2011.12.	33,822,533	0.2491	8,426,307
가	39,620,154	1.5218	60,294,607
가			207,175,206

$$\begin{aligned} & \text{FCF 가} + \text{가 (CV) 가} = \text{가} \\ & \text{PV}(2002.12. \sim 2006.12. \text{ FCF}) + \text{PV}(39,620,154 \text{ 가}) \\ & = 207,175,206 \end{aligned}$$

WACC

가		Growth rate %					
	207,175,206	-	0.50	1.00	1.50	2.00	2.50
WACC %	14.37	232,320,424	235,223,277	238,343,248	241,705,641	245,339,852	249,280,231
	16.37	207,183,426	209,083,269	211,106,720	213,266,246	215,576,053	218,052,392
	18.37	188,252,973	189,539,061	190,899,190	192,339,943	193,868,708	195,493,803
	20.37	173,535,625	174,430,192	175,370,943	176,361,548	177,406,079	178,509,061
	22.37	161,783,220	162,419,553	163,085,663	163,783,689	164,515,984	165,285,132
	24.37	152,180,723	152,641,990	153,122,993	153,625,029	154,149,507	154,697,967
	26.37	144,177,397	144,517,213	144,870,422	145,237,834	145,620,323	146,018,835

가		Growth rate %					
	517	-	0.50	1.00	1.50	2.00	2.50
WACC %	14.37	643	657	673	690	708	728
	16.37	517	526	536	547	559	571
	18.37	422	428	435	442	450	458
	20.37	348	353	357	362	367	373
	22.37	289	292	296	299	303	307
	24.37	241	243	246	248	251	254
	26.37	201	203	204	206	208	210

2) Market Multiple

$$\text{EBITDA} * \text{Market Multiple} = 51,119,615 * 3.03 = 154,742,306$$

3) Historical Multiple

$$\text{EBITDA} * \text{Historical Multiple} = 51,119,615 * 3.45 = 176,197,407$$

4) EV/EBITDA Multiple

5) EV/EBITDA Historical Multiple

(2) 가

(:)

	DCF	Market Multiple	Historical Multiple	EV/EBITDA H.M.
1. 가 : TIC	207,175,206	154,742,306	176,197,407	
2. 가 : NOA	86,420,071	86,420,071	86,420,071	
3. 가 (1+2) : FV	293,595,277	241,162,377	262,617,478	

(3) 가

(: ,)

	DCF	Market Multiple	Historical Multiple	EV/EBITDA H.M.
1. 가 : FV	293,595,277	241,162,377	262,617,478	
2. 가 : IBD	190,554,563	190,554,563	190,554,563	
3. 가 (1-2) : EV	103,040,714	50,607,814	72,062,915	
4.	199,404,370	199,404,370	199,404,370	
5. 가 (3÷4)	516	254	361	

. EVA 가

1 , 2 5 WACC DCF , 3 WACC EVA(EP) , 4 WACC

	1996.12	1997.12	1998.12	1999.12	2000.12	2001.12
NOPLAT	33,587,676 -	2,086,418	3,514,307 -	20,828,510	20,006,834	9,780,198
ROIC=NOPLAT/IC		1.27	1.84	17.27	8.96	4.71
IC * WACC		26,956,686	31,237,650	19,747,553	36,543,059	33,980,186
IC()		164,663,614	190,813,676	120,626,972	223,221,512	207,566,326
WACC	16.37	16.37	16.37	16.37	16.37	16.37
EVA(EP) = NOPLAT - IC*WACC	-	29,043,104 -	27,723,343 -	40,576,063 -	16,536,225 -	24,199,988

가 가	2001.12 (Latest)	2002.12.	2003.12.	2004.12.	2005.12.	2006.12.	2007.12.
NOPLAT	9,780,198	23,257,561	37,899,525	38,205,166	37,093,061	35,998,472	34,799,295
ROIC=NOPLAT/IC	4.71	11.00	19.24	19.76	19.30	19.12	18.85
IC * WACC	33,980,186	34,616,870	32,239,581	31,644,270	31,463,294	30,819,476	30,226,579
IC()	207,566,326	211,455,480	196,933,924	193,297,496	192,192,012	188,259,281	184,637,599
WACC	16.37	16.37	16.37	16.37	16.37	16.37	16.37
EVA(EP) = NOPLAT - IC*WACC	- 24,199,988 -	11,359,310	5,659,943	6,560,896	5,629,767	5,178,996	4,572,716
PVIF		0.9750	0.8379	0.7200	0.6187	0.5317	0.4569
MVA	12,833,579 -	11,075,873	4,742,357	4,723,908	3,483,251	2,753,570	2,089,204
IC	211,455,480					16,820,049	
Operating Value(MVA + IC)	224,289,059						
(+)NOA	86,420,071						
FV	310,709,130						
(-)IBD	190,554,563						
Equity Value	120,154,567						
(+) Outstanding Shares	199,404,370						
Equity Value Per Share	603						

X. 가 가

1. DCF 가 가 (EVA)

가			가
(1) NOA	NOA	NOA	가 가
(2) IBD	IBD	WACC	가
(3)			, 가
(4)			가
(5)			
(6) WACC			가
(7)			

2. Multiple 가 가

가			가
(1) NOA	NOA	NOA	가 가
(2) IBD	IBD	WACC	가
(3)			, 가
(4) Multiple	Multiple		Multiple
(5)			

3. EBITDA Multiple (가) (2003)

Code	Company	NOA Average	TIC Average	EBITDA Average	M. Average	Summary
017040		23,640,345.667 -	1,968,271.853	2,004,753.000 -	22.798	NOA가
008600		177,002,446.000 -	86,811,376.730	5,037,676.333 -	18.437	NOA가
058650		292,753,333.667 -	218,947,449.380	15,429,344.667 -	14.663	NOA가
009140		32,574,626.333 -	15,431,084.960	1,340,778.000 -	14.631	NOA가
002240		366,652,666.667 -	242,728,305.287	23,799,180.000 -	10.211	NOA가
005190		116,428,219.667 -	61,381,076.970	7,874,483.000 -	8.635	NOA가
007910		42,229,038.000 -	21,055,425.590	3,590,932.667 -	7.750	NOA가
008110		70,143,629.333 -	40,533,676.920	7,101,805.667 -	7.236	NOA가
001130		361,790,772.333 -	135,203,314.200	19,432,562.333 -	6.894	NOA가
016450		93,002,721.667 -	32,210,112.023	9,182,837.333 -	6.306	NOA가
009280		122,583,709.333 -	61,359,631.347	10,307,174.333 -	6.145	NOA가
006660		106,975,737.333 -	64,985,840.693	10,980,916.000 -	6.029	NOA가
026890		74,635,575.000 -	22,615,344.057	4,498,063.667 -	5.956	NOA가
002810		50,258,840.000 -	24,492,565.160	4,382,052.667 -	5.703	NOA가
000830		4,505,102,896.667 -	1,591,694,063.243	291,201,708.667 -	5.442	NOA가
009580		85,107,228.333 -	17,511,966.383	17,984,994.333 -	5.390	NOA가
000360		279,594,336.667 -	114,338,598.296	22,692,007.667 -	5.382	NOA가
001530		179,229,495.000 -	55,606,556.387	10,875,273.333 -	5.227	NOA가
001460	BYC	73,625,138.667 -	33,550,280.780	10,326,055.333 -	4.151	NOA가
019680		245,633,456.333 -	242,845,473.000	67,820,672.000 -	3.582	NOA가
009760		90,762,284.333 -	10,212,563.793	8,460,528.333 -	3.526	NOA가
005450		101,384,743.000 -	33,931,725.901	9,705,034.333 -	3.392	NOA가
001880		121,141,708.000 -	64,407,128.527	19,810,420.000 -	3.213	NOA가
014990		145,901,832.667 -	117,964,133.217	39,030,152.667 -	3.141	NOA가
034310		30,936,267.000 -	24,179,350.333	8,001,879.000 -	3.031	NOA가
012030		134,246,149.667 -	25,949,297.023	10,639,317.333 -	2.739	NOA가
009970		153,918,938.000 -	61,828,093.223	23,623,686.000 -	2.606	NOA가
005390		73,224,896.333 -	50,872,902.703	17,997,480.333 -	2.498	NOA가
004970		82,185,310.000 -	30,126,125.017	13,620,699.333 -	2.451	NOA가
007110		19,467,346.000 -	8,148,966.030	4,492,198.333 -	2.194	NOA가
009680		64,581,436.333 -	22,132,045.183	11,003,954.667 -	2.069	NOA가
007340		130,188,221.667 -	48,007,995.923	24,035,175.667 -	2.036	NOA가
000670		300,533,401.333 -	64,193,385.130	31,844,106.000 -	2.010	NOA가
009450		65,822,563.333 -	28,413,087.267	17,831,158.333 -	1.883	NOA가
005850		119,741,881.333 -	32,268,691.273	17,457,767.333 -	1.880	NOA가
037270		26,850,336.333 -	8,514,071.293	5,568,316.333 -	1.860	NOA가
033530		86,102,623.000 -	29,035,849.590	18,219,997.667 -	1.859	NOA가
002000		312,616,760.667 -	76,637,216.053	42,035,410.667 -	1.843	NOA가
014590		32,609,935.333 -	184,471.230	3,451,498.667 -	1.686	NOA가
078000		16,392,401.667 -	16,245,207.333	10,075,461.000 -	1.612	NOA가
000970		90,829,809.667 -	20,875,578.567	13,694,432.000 -	1.569	NOA가
047050		834,467,143.000 -	145,139,696.337	99,113,875.000 -	1.561	NOA가
077500		12,884,305.000 -	12,798,451.000	8,812,077.333 -	1.542	NOA가
000210		1,276,092,867.667 -	255,299,712.845	201,081,457.333 -	1.451	NOA가
021820		27,208,240.000 -	7,987,487.693	5,931,349.000 -	1.379	NOA가
004620		31,916,464.667 -	6,736,774.477	8,352,609.333 -	1.287	NOA가

Multiple

EBITDA 가 (-)

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4. ROIC 가 (2003)

Code	Company	NOPLAT Average	IC Average	ROIC Average	std dev.	summary
078000		6,516,451	7,606,892	779.00%	1252.71%	2000 IC가
037710		16,924,392	14,435,001	429.22%	894.60%	IC가 (-)
016970	-	5,099,433	12,922,936	369.96%	682.91%	(-)IC (+)
036570		34,833,135	1,476,330	262.62%	951.74%	IC가 (-)
072130		3,560,762	2,169,553	160.82%	74.21%	IC가
036530		14,638,300	11,992,582	131.26%	95.45%	IC가
008110		3,793,742	3,033,709	123.20%	4.86%	
009890	-	1,315,748	13,212,491	108.43%	139.62%	(-)IC (+)
010780		18,425,884	71,137,977	78.12%	103.36%	
013580		31,523,386	48,690,625	75.78%	27.63%	
001880		13,503,609	48,599,260	66.96%	79.36%	
034300		12,502,604	23,993,808	60.82%	39.26%	
004960		28,488,120	129,425,701	53.28%	63.05%	
012330		324,486,551	657,871,494	50.80%	14.49%	
017670	SK	1,859,317,444	4,241,180,359	46.91%	11.10%	
002250		8,242,368	18,475,229	46.50%	12.15%	
000720		27,983,547	840,551,859	43.84%	67.56%	
000520		8,473,356	20,166,631	42.81%	12.17%	
002790		119,369,314	282,512,888	42.62%	4.42%	
042100		60,087,548	145,944,772	42.51%	10.80%	
020000		26,357,700	68,511,867	42.39%	15.33%	
013200		38,276,227	274,648,935	40.89%	64.96%	
010420	-	4,664	8,654,002	40.42%	85.66%	
058730		3,584,198	9,831,856	40.18%	17.67%	
009450		10,136,403	25,646,044	39.86%	17.94%	
005010		11,599,071	102,417,673	36.94%	51.44%	
009720		98,236,201	306,341,720	35.39%	22.93%	
008870		10,813,191	31,261,656	34.66%	0.92%	
005930		3,958,787,163	11,408,437,677	34.42%	17.26%	
047050		61,486,608	313,030,483	34.37%	26.12%	
005850		7,388,765	22,154,440	34.03%	8.33%	
009410		49,527,356	18,851,866	33.38%	208.95%	
009970		15,282,758	46,414,665	33.21%	2.56%	
015890		6,592,121	20,563,400	32.97%	9.46%	
005300		108,432,874	334,701,671	32.52%	2.02%	
025540		20,718,264	63,795,332	32.27%	6.25%	
005900		25,041,468	86,507,476	31.77%	18.07%	
004990		95,448,624	309,554,862	31.11%	7.02%	
003070		36,487,370	126,506,146	31.07%	12.01%	
017800		26,001,510	88,132,026	30.45%	10.23%	
005880		40,983,286	155,562,823	30.35%	19.07%	
001120	LG	109,460,478	390,001,292	30.29%	11.85%	
003120		12,291,717	41,269,883	29.97%	4.95%	
021240		24,490,070	87,349,943	29.80%	8.18%	
009240		17,532,024	69,836,624	29.25%	16.10%	
002960		5,715,154	19,500,833	29.20%	4.55%	
006360	LG	187,208,173	658,110,946	29.01%	5.37%	
023800		4,527,525	15,681,826	28.93%	4.62%	

ROIC 가

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(-)
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가(2003) (-)EBITDA											
Code	Company	ROE	ROA	ROIC	Coverage	PER	PBR	PCR	FV/EBITDA	TIC/EBITDA	
004770		51.12%	28.29%	111.17%	30.90	0.63	0.29	0.60	-	0.36	- 55.31
008110		10.29%	8.28%	252.74%	71.52	1.99	0.31	3.77	-	0.91	- 12.81
013360		5.89%	3.84%	10.36%	8.31	3.44	0.18	1.97	-	1.68	- 10.92
009080		57.98%	45.37%	202.32%	671,501.60	1.23	0.45	1.00	-	0.62	- 10.78
001460	BYC	5.46%	4.00%	7.64%	15.39	3.16	0.17	4.49	-	1.91	- 8.05
006660		11.23%	7.73%	-140.39%	35.26	5.59	0.37	11.88	-	0.79	- 7.56
005450		1.19%	0.56%	7.73%	1.15	10.85	0.14	1.15	-	1.78	- 4.41
014990		21.07%	5.94%	-77.42%	2.20	1.21	0.19	0.32	-	1.32	- 4.11
000800		7.64%	3.52%	15.75%	3.75	2.09	0.36	1.15	-	3.38	- 4.04
004620		4.19%	3.25%	6.60%	49.59	5.81	0.28	1.49	-	0.53	- 3.50
009680		14.35%	7.14%	26.82%	-	4.72	0.62	135.91	-	0.04	- 2.71
007340		9.08%	8.14%	16.28%	51.59	3.95	0.35	5.71	-	0.69	- 2.53
000970		4.64%	3.39%	4.53%	11.95	4.95	0.25	10.43	-	1.24	- 2.07
013200		9.00%	2.58%	12.70%	1.57	0.94	0.14	0.06	-	1.46	- 1.99
006740		7.44%	6.68%	11.22%	333.44	2.71	0.21	5.40	-	0.72	- 1.80
014350		15.09%	5.65%	16.04%	13.18	1.27	0.16	0.52	-	0.81	- 1.59
009580		0.47%	0.16%	9.06%	1.06	49.09	0.27	1.20	-	0.27	- 0.53

equity multiple , PER,PBR,PCR (+) 가 .
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 2003 .

가(2003)											
Code	Company	ROE	ROA	ROIC	Coverage	PER	PBR	PCR	FV/EBITDA	TIC/EBITDA	
002240		7.72%	6.69%	32.92%	2,803.15	2.95	0.21	3.93	0.33	-	12.50
058650		7.49%	6.07%	47.02%	20.68	2.25	0.13	0.32	5.59	-	11.59
009280		4.82%	3.98%	33.89%	201.15	6.58	0.34	6.72	1.88	-	8.54
019680		23.69%	12.99%	199.77%	876.97	-	-	-	-	-	3.64
009450		9.25%	6.02%	27.55%	11,936.81	3.73	0.37	20.16	0.01	-	3.30
004960		27.69%	11.66%	66.51%	27.00	1.58	0.28	0.98	1.47	-	1.42
003120		12.02%	10.47%	24.26%	6,410.71	4.13	0.39	9.54	0.34	-	1.28
001940		18.91%	11.61%	21.89%	24.58	2.88	0.27	0.55	1.07	-	0.88
001600		15.75%	5.44%	43.84%	26.19	4.74	0.71	0.99	3.35	-	0.83
005900		27.45%	10.01%	53.91%	21.48	1.26	0.27	1.47	0.69	-	0.77
004450		15.33%	12.04%	29.87%	30.80	2.34	0.36	1.66	1.13	-	0.58
000480		13.99%	10.26%	20.91%	60.77	2.87	0.33	53.67	1.75	-	0.51
058730		19.87%	13.57%	23.57%	80.04	-	-	-	-	-	0.39
000210		13.89%	7.45%	32.76%	26.84	8.41	0.59	21.31	5.45	-	0.35
010690		13.78%	8.88%	26.58%	44.85	2.98	0.33	2.25	1.32	-	0.32
015890		13.38%	9.06%	51.47%	26.11	5.62	0.68	33.95	3.76	-	0.28
033530		11.67%	7.91%	22.75%	120.44	6.55	0.53	12.52	1.30	-	0.19
036530		18.70%	13.48%	195.16%	85.18	4.45	0.86	3.06	1.59		0.01
068290		13.02%	10.98%	22.58%	118.17	2.45	0.34	4.42	1.59		0.02
025000		16.07%	13.46%	31.87%	753.04	5.49	0.62	12.50	2.64		0.02
009410		14.33%	9.25%	62.57%	30.38	5.93	0.74	35.56	4.07		0.05
013580		19.92%	10.29%	31.06%	47.63	2.82	0.45	7.92	2.31		0.19
003660		26.33%	14.37%	31.29%	22.49	1.97	0.47	8.29	1.16		0.23
017370		11.90%	7.04%	27.08%	486.85	7.07	0.80	3.33	2.26		0.60
016880		8.06%	5.09%	21.24%	32.00	7.77	0.72	7.47	2.02		0.64
008870		21.50%	15.00%	24.85%	23.43	2.58	0.53	2.04	1.36		0.93
004990		13.33%	9.34%	32.30%	45.07	6.56	0.86	7.99	2.34		0.93
023800		21.07%	10.90%	35.33%	30.09	4.43	0.71	15.81	2.62		1.14
002960		20.30%	16.50%	36.51%	153,819.32	4.88	0.83	7.45	1.82		1.45
008730		38.12%	24.07%	20.09%	28.92	2.88	0.79	3.67	3.93		1.73
016570		16.96%	9.88%	21.10%	32.44	5.29	0.69	31.80	2.58		1.94
005300		18.03%	11.97%	29.82%	67.54	6.70	1.05	8.15	2.59		2.05
020000		20.78%	16.42%	30.11%	260.03	6.91	0.90	4.34	7.04		2.69
002790		25.22%	18.31%	53.33%	770.04	10.24	1.45	7.01	5.08		3.02
006400	SDI	18.43%	13.22%	41.25%	55.33	10.41	1.16	111.42	6.56		3.17
025540		15.21%	12.66%	27.71%	312.33	11.59	1.38	60.26	5.39		3.30
042100		23.25%	13.89%	37.29%	108.60	9.87	1.54	7.92	5.25		3.57
042660		19.08%	6.76%	20.61%	24.21	11.58	1.57	3.21	6.41		3.94
004820		456.69%	70.59%	29.70%	23.82	0.12	0.24	0.59	0.24		3.96
018880		20.80%	13.68%	32.12%	126.45	12.96	1.41	18.75	6.86		4.00
005930		21.85%	16.18%	48.52%	73.18	13.35	2.07	22.23	6.42		4.21
012990	LG	20.82%	15.01%	22.98%	63.27	11.85	1.66	12.55	6.22		4.42
033240		14.95%	11.88%	26.69%	53.43	14.48	1.54	14.29	7.53		4.65
069620		19.25%	12.70%	24.16%	30.19	4.87	1.00	1.10	5.89		4.67
012750		15.56%	11.01%	24.42%	11,486.57	18.26	2.46	20.56	6.68		5.69
034120		17.44%	13.48%	26.53%	35.02	11.25	1.80	14.71	7.92		7.93
036570		15.42%	12.93%	152.81%	80.79	39.23	3.72	349.71	32.01		10.02
072130		24.92%	19.80%	154.27%	230.27	11.96	3.60	89.62	8.83		14.96

ROIC가 20% , 20