

มหาวิทยาลัยเชียงใหม่  
Chiang Mai University

ภาคผนวก

## ภาคผนวก ก งบการเงินของหลักทรัพย์

## TPIPL งบการเงิน ณ ปี 2543-2545

BALANCE SHEET	2545 (Mil baht)	2544 (Mil baht)	2543 (Mil baht)
<b>ASSET</b>			
CASH ON HAND AND AT BANKS	589.15	1419.06	926.58
SHORT-TERM INVESTMENTS	21.92	21.55	407.34
TRADE ACCOUNTS AND NOTES RECEIVABLE	1337.41	1918.63	1891.5
LOANS TO AND AMOUNT DUE FROM RELATED PARTIES	21.09	64.2	35.93
INVENTORIES	4100.02	3841.9	4571.6
OTHER CURRENT ASSETS	980.24	990.96	161.13
<b>TOTAL CURRENT ASSETS</b>	<b>7049.82</b>	<b>8256.31</b>	<b>7994.07</b>
INVESTMENT AND LOANS	85.01	248.76	13.07
INVESTMENT AND LOANS TO RELATED PARTIES	1784.65	3096.03	4146.04
PROPERTY, PLANT AND EQUIPMENT, NET	57147.34	60510.59	63200.45
OTHER ASSETS	1376.05	656.63	973.86
<b>TOTAL ASSET</b>	<b>67442.86</b>	<b>72768.32</b>	<b>76327.5</b>
<b>LIABILITIES AND SHAREHOLDERS' EQUITY</b>			
BANK OVERDRAFTS AND SHORT-TERM LOANS	14805.27	25376.73	13551.22
TRADE ACCOUNTS AND NOTES PAYABLE	1027.94	913.04	1029.24
CURRENT PORTION OF LONG-TERM LIABILITIES	19918.48	19143.86	15298.24
LOANS FROM AND AMOUNT DUE TO RELATED PARTIES	23.49	2504.59	3847.27
OTHER CURRENT LIABILITIES	14342.06	9924.16	20731.34
<b>TOTAL CURRENT LIABILITIES</b>	<b>50117.24</b>	<b>57862.38</b>	<b>54457.31</b>
LONG-TERM LIABILITIES	36.44	87.93	143.07
LOANS			
OTHER LIABILITIES			
<b>TOTAL LIABILITIES</b>	<b>50153.69</b>	<b>57950.3</b>	<b>54600.37</b>
MINORITY INTEREST	0	0	0

ISSUED AND PAID-UP SHARE CAPITAL-COMMON STOCKS	5075	5075	5075
APPRAISAL SURPLUS	25763.22	28826.54	30450.25
RETAINED EARNINGS	-12088.29	-18471.12	-13010.13
APPROPRIATED	6766.67	6766.67	6766.67
UNAPPROPRIATED	-18854.96	-25237.78	-19776.8
UNREALIZED LOSS ON SECURITIES FOR INVESTMENT	-1513.7	-1603.74	-1455.98
UNREALIZED GAIN (LOSS) ON FOREIGN CURRENCY TRANSLATION			
OTHER CAPITAL SURPLUSES	52.94	991.32	667.99
<b>SHAREHOLDERS' EQUITY</b>	<b>17289.17</b>	<b>14818.01</b>	<b>21727.13</b>
<b>TOTAL LIABILITIES AND SHAREHOLDERS' EQUITY</b>	<b>67442.86</b>	<b>72768.32</b>	<b>76327.5</b>
<b>INCOME STATEMENTS</b>			
SALES	67233.33	8309.16	6798.18
EQUITY INCOME	34.82	-265.95	-160.67
OTHER INCOME	1606.61	552.05	386.73
TOTAL REVENUES	8364.76	8595.26	7024.24
COST OF SALES	5328.17	5924.58	5002.86
SELLING AND ADMINISTRATIVE EXPENSES	1609.06	1834.53	1478.6
DIRECTORS' REMUNERATION		2.97	3.01
INTEREST EXPENSES	997.78	1896.96	2042.25
OTHER EXPENSES	0.08	634.42	764.87
INCOME (LOSS) FROM OPERATION	429.67	-1698.2	-2267.34
INCOME TAX EXPENSES		0	0
INCOME (LOSS) AFTER INCOME TAX	429.67	-1698.2	-2267.34
EXTRAORDINARY ITEMS		335.2	648.01
MINORITY INTEREST			
<b>NET INCOME (LOSS)</b>	<b>429.67</b>	<b>-1363</b>	<b>-1619.33</b>
<b>EARNINGS PER SHERE(BAHT)</b>	<b>0.85</b>	<b>-2.69</b>	<b>-3.19</b>

SCC งบการเงิน ณ ปี 2543-2545

BALANCE SHEET	2545 (Mil baht)	2544 (Mil baht)	2543 (Mil baht)
<b>ASSET</b>			
CASH ON HAND AND AT BANKS	2526.76	5383.71	5740.94
SHORT-TERM INVESTMENTS	352	1038.47	713.97
TRADE ACCOUNTS AND NOTES RECEIVABLE	13077.09	13266.67	15689.84
LOANS TO AND AMOUNT DUE FROM RELATED PARTIES	995.85	1144.44	490.2
INVENTORIES	19945.08	22119.39	25608.04
OTHER CURRENT ASSETS	2507.35	2751.95	3517.36
<b>TOTAL CURRENT ASSETS</b>	<b>39404.13</b>	<b>45704.62</b>	<b>51760.35</b>
INVESTMENT AND LOANS			
INVESTMENT AND LOANS TO RELATED PARTIES		27101.93	23994.05
PROPERTY, PLANT AND EQUIPMENT, NET	79020.36	158769.74	170355.22
OTHER ASSETS	112241.14	24372.69	27926.35
<b>TOTAL ASSET</b>	<b>230665.63</b>	<b>255948.98</b>	<b>274035.97</b>
<b>LIABILITIES AND SHAREHOLDERS' EQUITY</b>			
BANK OVERDRAFTS AND SHORT-TERM LOANS	8034.92	12893.58	17100.96
TRADE ACCOUNTS AND NOTES PAYABLE	7433.63	8686.78	10694.42
CURRENT PORTION OF LONG-TERM LIABILITIES	34792.25	11766.08	15348.18
LOANS FROM AND AMOUNT DUE TO RELATED PARTIES	943	1415.04	737.3
OTHER CURRENT LIABILITIES	6644	6299	6434.54
<b>TOTAL CURRENT LIABILITIES</b>	<b>57847.79</b>	<b>41060.47</b>	<b>50315.4</b>
PROVIDENT AND PENSION FUND	679.72	719.57	678.83
LONG-TERM LIABILITIES	98375.39	141474.13	153051.3
DEBT INSTRUMENTS		87510.24	72321
OTHERS		53963.89	80730.3
OTHER LIABILITIES	1339.95	1210.62	1209.86
<b>TOTAL LIABILITIES</b>	<b>158242.86</b>	<b>184464.78</b>	<b>205255.4</b>

MINORITY INTEREST	10581.26	10693.03	14296.1
ISSUED AND PAID-UP SHARE CAPITAL-COMMON STOCKS	1200	1200	1200
APPRAISAL SURPLUS	56120.41	62619.19	62517.6
PAID-IN CAPITAL	10.67		
RETAINED EARNINGS	5485.25	-4937.71	-9521.89
APPROPRIATED	10225	10182	10182
UNAPPROPRIATED	-4739.76	-15119.71	-19703.89
UNREALIZED LOSS ON SECURITIES FOR INVESTMENT	-503.15	-794.96	34.37
UNREALIZED GAIN (LOSS) ON FOREIGN CURRENCY TRANSLATION	-495.67	-64.74	-369.68
OTHER CAPITAL SURPLUSES	23.99	2769.38	624.08
<b>SHAREHOLDERS' EQUITY</b>	<b>61841.51</b>	<b>60791.17</b>	<b>54484.47</b>
<b>TOTAL LIABILITIES AND SHAREHOLDERS' EQUITY</b>	<b>230665.63</b>	<b>255948.98</b>	<b>274035.97</b>
<b>INCOME STATEMENTS</b>			
SALES	64807.45	67042.29	69477.62
EQUITY INCOME	2724.51	1587.25	629.34
OTHER INCOME	1012.75	3566.07	1055.57
<b>TOTAL REVENUES</b>	<b>68544.7</b>	<b>72195.61</b>	<b>71162.53</b>
COST OF SALES	48190.18	51090.62	51992.59
SELLING AND ADMINISTRATIVE EXPENSES	7909.86	7305.88	7152.18
DIRECTORS' REMUNERATION	34.99	9.86	10.14
INTEREST EXPENSES		6313.85	7167.87
OTHER EXPENSES	5176.2	0	1016.67
INCOME (LOSS) FROM OPERATION	7233.48	7475.4	3823.08
INCOME TAX EXPENSES	1272.86	1299.96	933.66
INCOME (LOSS) AFTER INCOME TAX	5960.62	6175.44	2889.41
EXTRAORDINARY ITEMS	173.59		
MINORITY INTEREST	299.9	939.23	1465.93
<b>NET INCOME (LOSS)</b>	<b>5834.3</b>	<b>5236.21</b>	<b>1423.48</b>
<b>EARNINGS PER SHERE(BAHT)</b>	<b>48.62</b>	<b>43.64</b>	<b>11.86</b>

## SCCC งบการเงิน ณ ปี 2543-2545

BALANCE SHEET	2545 (Mil baht)	2544 (Mil baht)	2543 (Mil baht)
<b>ASSET</b>			
CASH ON HAND AND AT BANKS	3719.69	759.51	1074.18
SHORT-TERM INVESTMENTS		895.87	427.62
TRADE ACCOUNTS AND NOTES RECEIVABLE	1700.46	1896.08	2019.26
INVENTORIES	1764.8	2162.36	2362.03
OTHER CURRENT ASSETS	169.3	200.34	110.61
<b>TOTAL CURRENT ASSETS</b>	<b>7354.25</b>	<b>5914.17</b>	<b>5993.7</b>
INVESTMENT AND LOANS		362.58	
INVESTMENT AND LOANS TO RELATED PARTIES	1048.1	633.43	385.54
PROPERTY, PLANT AND EQUIPMENT, NET	12197.54	13497.26	26840.46
OTHER ASSETS	3583.02	4182.89	4728.9
<b>TOTAL ASSETS</b>	<b>24182.91</b>	<b>24590.33</b>	<b>37948.6</b>
<b>LIABILITIES AND SHAREHOLDERS' EQUITY</b>			
BANK OVERDRAFTS AND SHORT-TERM LOANS		95.05	276.82
TRADE ACCOUNTS AND NOTES PAYABLE	866.19	765.38	626.08
CURRENT PORTION OF LONG-TERM LIABILITIES	5170.83	149.53	958
LOANS FROM AND AMOUNT DUE TO RELATED PARTIES			
OTHER CURRENT LIABILITIES	867.92	805.37	686.86
<b>TOTAL CURRENT LIABILITIES</b>	<b>6904.94</b>	<b>1815.33</b>	<b>2547.76</b>
PROVIDENT AND PENSION FUND	375.78	334.48	371.14
LONG-TERM LIABILITIES	867.15	6402.69	8478.88
LOANS	867.15	1402.69	3478.88
DEBT INSTRUMENTS		5000	5000
<b>TOTAL LIABILITIES</b>	<b>8147.87</b>	<b>8552.5</b>	<b>11397.78</b>
MINORITY INTEREST	385.62	445.21	314.36
ISSUED AND PAID-UP SHARE CAPITAL-COMMON STOCKS	2500	2500	2500

APPRAISAL SURPLUS			12291.59
PAID-IN CAPITAL	10106.27	10106.27	10106.27
RETAINED EARNINGS	3043.16	2986.35	1338.61
APPROPRIATED	300	6845	6845
UNAPPROPRIATED	2743.16	-3858.65	-5506.39
UNREALIZED GAIN (LOSS) ON FOREIGN CURRENCY TRANSLATION			
<b>SHAREHOLDERS' EQUITY</b>	<b>15649.42</b>	<b>15592.62</b>	<b>26236.46</b>
<b>TOTAL LIABILITIES AND SHAREHOLDERS' EQUITY</b>	<b>24182.91</b>	<b>24590.33</b>	<b>37948.6</b>
<b>INCOME STATEMENTS</b>			
SALES	8540.88	8514.67	7697.36
EQUITY INCOME	13.66	6.97	-30.03
OTHER INCOME	81.49	204.21	241.65
TOTAL REVENUES	8636.03	8725.85	7908.98
COST OF SALES	5926.82	5340.21	5193.59
SELLING AND ADMINISTRATIVE EXPENSES	786.32	890.62	844.83
DIRECTORS' REMUNERATION	4.46	5.33	3.84
INTEREST EXPENSES		259.86	469.97
OTHER EXPENSES	384.43	0	100.89
INCOME (LOSS) FROM OPERATION	1534	2229.83	1295.85
INCOME TAX EXPENSES	374.37	605.47	414.94
INCOME (LOSS) AFTER INCOME TAX	1159.64	1624.35	880.91
MINORITY INTEREST	39.74	61.9	14.1
<b>NET INCOME (LOSS)</b>	<b>1119.89</b>	<b>1562.46</b>	<b>866.82</b>
<b>EARNINGS PER SHARE(BAHT)</b>	<b>4.48</b>	<b>6.25</b>	<b>3.47</b>

ที่มา : Reuters (2002: Online)

## SSI งบการเงิน ณ ปี 2543-2545

BALANCE SHEET	2545 (Mil baht)	2544 (Mil baht)	2543 (Mil baht)
<b>ASSET</b>			
CASH ON HAND AND AT BANKS	132.36	104.24	178.61
SHORT-TERM INVESTMENTS	60	60.41	
TRADE ACCOUNTS AND NOTES RECEIVABLE	1586.48	1046.23	1552.4
LOANS TO AND AMOUNT DUE FROM RELATED PARTIES	0.04		
INVENTORIES	4825.55	5412.74	7186.69
OTHER CURRENT ASSETS	114.46	95.99	92.53
<b>TOTAL CURRENT ASSETS</b>	<b>6718.87</b>	<b>6719.61</b>	<b>9010.23</b>
INVESTMENT AND LOANS		16.95	16.69
INVESTMENT AND LOANS TO RELATED PARTIES	561.62	561.62	561.62
PROPERTY, PLANT AND EQUIPMENT, NET	15695.99	16334.38	16492.08
OTHER ASSETS	15.05	8.94	10.04
<b>TOTAL ASSET</b>	<b>22991.53</b>	<b>23641.49</b>	<b>26090.66</b>
<b>LIABILITIES AND SHAREHOLDERS' EQUITY</b>			
BANK OVERDRAFTS AND SHORT-TERM LOANS	1800.44	3406.8	2300
TRADE ACCOUNTS AND NOTES PAYABLE	434.58	304.74	3130.31
CURRENT PORTION OF LONG-TERM LIABILITIES	155.79	83.63	21.88
OTHER CURRENT LIABILITIES	229.7	188.01	447.5
<b>TOTAL CURRENT LIABILITIES</b>	<b>2620.51</b>	<b>3983.17</b>	<b>5899.68</b>
LONG-TERM LIABILITIES	14934.53	14659.26	14648.63
LOANS	12332.01	12259.26	14648.63
DEBT INSTRUMENTS	2596.05	2400	
OTHERS	6.47		
OTHER LIABILITIES	3.5	6.5	9.5
<b>TOTAL LIABILITIES</b>	<b>17558.54</b>	<b>18648.93</b>	<b>20557.8</b>
MINORITY INTEREST	306.43	301.96	246.32

ISSUED AND PAID-UP SHARE CAPITAL-COMMON STOCKS	8530	8530	8530
APPRAISAL SURPLUS	4877.7	5074.04	5226.75
PAID-IN CAPITAL			
RETAINED EARNINGS	-8281.14	-8913.43	-8470.22
UNAPPROPRIATED	-8281.14	-8913.43	-8470.22
<b>SHAREHOLDERS' EQUITY</b>	<b>5126.56</b>	<b>4690.61</b>	<b>5286.54</b>
<b>TOTAL LIABILITIES AND SHAREHOLDERS' EQUITY</b>	<b>22991.53</b>	<b>23641.49</b>	<b>26090.66</b>
<b>INCOME STATEMENTS</b>			
SALES	10761.86	6285.54	8402.95
OTHER INCOME	56.48	26.92	147.29
<b>TOTAL REVENUES</b>	<b>10818.34</b>	<b>6312.45</b>	<b>8550.23</b>
COST OF SALES	8735.11	5825.79	7217.91
SELLING AND ADMINISTRATIVE EXPENSES	536.96	263.61	224.68
DIRECTORS' REMUNERATION	1.94	1.96	1.92
INTEREST EXPENSES	456.95	523.13	637.66
OTHER EXPENSES	27.64		
INCOME (LOSS) FROM OPERATION	1059.74	-302.02	468.06
INCOME TAX EXPENSES	4.97	1.71	4.16
INCOME (LOSS) AFTER INCOME TAX	1054.78	-303.73	463.9
EXTRAORDINARY ITEMS		70	
MINORITY INTEREST	54.45	27.89	61.8
<b>NET INCOME (LOSS)</b>	<b>1000.32</b>	<b>-261.63</b>	<b>402.1</b>
<b>EARNINGS PER SHERE(BAHT)</b>	<b>1.17</b>	<b>-0.31</b>	<b>0.47</b>

ที่มา : Reuters (2002: Online)

ภาคผนวก ข อัตราส่วนทางการเงินและความหมายของการวิเคราะห์

### อัตราส่วนวิเคราะห์ความคล่องตัว(Liquidity ratios)

$$\text{อัตราส่วนเงินทุนหมุนเวียน (Current ratios)} = \frac{\text{สินทรัพย์หมุนเวียน}}{\text{หนี้สินหมุนเวียน}}$$

เป็นอัตราส่วนใช้วัดความสามารถในการชำระหนี้สินระยะสั้นอัตราส่วนนี้เป็นเครื่องชี้ฐานะทางการเงินระยะสั้นของธุรกิจถ้าอัตราส่วนนี้มีค่าสูงยิ่งแสดงว่าบริษัทมีความคล่องตัวมาก เจ้าหนี้ระยะสั้นจะให้ความสำคัญต่ออัตราส่วนนี้มากเนื่องจากแสดงโอกาสที่จะได้รับชำระหนี้ว่ามีอยู่มากหรือน้อยตามค่าอัตราส่วน โดยทั่วไปธุรกิจที่มีอัตราส่วนเงินทุนหมุนเวียนเท่ากับ 2 : 1 ถือว่าเหมาะสมแล้ว แต่ในการที่จะตัดสินใจก็ควรจะต้องพิจารณาถึงปัจจัยอื่นๆ ประกอบด้วยเช่น ลักษณะและประเภทของธุรกิจ ค่าเฉลี่ยของอุตสาหกรรมประเภทเดียวกัน เป็นต้น

### อัตราส่วนวิเคราะห์ประสิทธิภาพในการดำเนินงาน

$$\text{ผลตอบแทนจากเงินลงทุน (Earning Power)} = \frac{\text{กำไรจากการดำเนินงาน}}{\text{สินทรัพย์ดำเนินงาน}}$$

อัตราส่วนนี้ใช้ในการวิเคราะห์เพื่อหาผลตอบแทนที่ได้จากสินทรัพย์ทั้งหมดของบริษัท โดยการพิจารณากำไรก่อนหักดอกเบี้ยและภาษี (กำไรจากการดำเนินงาน) เทียบกับการใช้สินทรัพย์ทั้งหมดของบริษัท

$$\text{ผลตอบแทนต่อยอดขาย (Operating income margin)} = \frac{\text{กำไรจากการดำเนินงาน}}{\text{ขายสุทธิ}}$$

อัตราส่วนนี้เป็นการวัดความสามารถในการจัดการ แสดงให้เห็นถึงรายได้จากการขายคงเหลือหลังจากหักค่าใช้จ่ายทั้งสิ้นแล้ว กรณีที่อัตราส่วนนี้ลดลง อาจมีสาเหตุมาจากกำไรขั้นต้นต่ำไปเนื่องจากต้นทุนสินค้าสูงหรือค่าใช้จ่ายอื่นๆ สูงขึ้นไม่สัมพันธ์กับยอดขาย ซึ่งจะต้องมีการปรับปรุงแก้ไข และควบคุมอย่างเข้มงวด ปัจจัยต่างๆ ดังกล่าวอาจเนื่องมาจากความต้องการของตลาดลดลงหรือภาวะการแข่งขันสูงหรือต้นทุนต่อหน่วยเพิ่มขึ้น เนื่องจากประสิทธิภาพการผลิตต่ำลง เป็นต้น

### อัตราส่วนวิเคราะห์ความสามารถในการทำกำไร

- ผลตอบแทนต่อสินทรัพย์รวม (Return on Asset) =  $\frac{\text{กำไรสุทธิ}}{\text{สินทรัพย์รวม}}$

เป็นอัตราส่วนที่วัดความสามารถในการทำกำไรของเงินลงทุนที่มาจากสองส่วนด้วยกันคือ หนี้สินและส่วนของผู้ถือหุ้น

- ผลตอบแทนต่อทุนส่วนของผู้ถือหุ้น (Return on Equity) =  $\frac{\text{กำไรสุทธิ}}{\text{ทุนส่วนของผู้ถือหุ้นสามัญ}}$

อัตราส่วนนี้ใช้ในการวิเคราะห์เพื่อวัดผลตอบแทนต่อส่วนของผู้ถือหุ้น หรือเงินทุนที่จะสะท้อนให้เห็นถึงความสามารถในการบริหารเพื่อให้เกิดผลตอบแทนแก่ผู้ถือหุ้นที่เป็นเจ้าของกิจการ







6 พ.ค. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
13 พ.ค. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
20 พ.ค. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
27 พ.ค. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
3 มิ.ย. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
10 มิ.ย. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
17 มิ.ย. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
24 มิ.ย. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
1 ก.ค. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
8 ก.ค. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
15 ก.ค. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
22 ก.ค. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
29 ก.ค. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
5 ส.ค. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
12 ส.ค. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
19 ส.ค. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
26 ส.ค. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
2 ก.ย. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
9 ก.ย. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
16 ก.ย. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
23 ก.ย. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
30 ก.ย. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
7 ต.ค. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
14 ต.ค. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
21 ต.ค. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
28 ต.ค. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
4 พ.ย. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
11 พ.ย. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
18 พ.ย. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
25 พ.ย. 2544	2.500	2.500	2.500	2.500	2.500	2.5	0.05
2 ธ.ค. 2544	2.500	2.500	2.250	2.500	2.500	2.45	0.05
9 ธ.ค. 2544	2.250	2.500	2.250	2.250	2.250	2.3	0.04
16 ธ.ค. 2544	2.250	2.500	2.250	2.250	2.250	2.3	0.04

23 ธ.ค. 2544	2.250	2.250	2.250	2.250	2.250	2.25	0.04
30 ธ.ค. 2544	2.250	2.250	2.250	2.250	2.250	2.25	0.04
6 ม.ค. 2545	2.250	2.250	2.250	2.250	2.250	2.25	0.04
13 ม.ค. 2545	2.250	2.250	2.250	2.250	2.250	2.25	0.04
20 ม.ค. 2545	2.250	2.250	2.250	2.250	2.250	2.25	0.04
27 ม.ค. 2545	2.250	2.250	2.250	2.250	2.250	2.25	0.04
3 ก.พ. 2545	2.250	2.250	2.250	2.250	2.250	2.25	0.04
10 ก.พ. 2545	2.250	2.250	2.250	2.250	2.250	2.25	0.04
17 ก.พ. 2545	2.250	2.250	2.000	2.250	2.250	2.2	0.04
24 ก.พ. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
3 มี.ค. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
10 มี.ค. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
17 มี.ค. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
24 มี.ค. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
31 มี.ค. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
7 เม.ย. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
14 เม.ย. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
21 เม.ย. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
28 เม.ย. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
5 พ.ค. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
12 พ.ค. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
19 พ.ค. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
26 พ.ค. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
2 มิ.ย. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
9 มิ.ย. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
16 มิ.ย. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
23 มิ.ย. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
30 มิ.ย. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
7 ก.ค. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
14 ก.ค. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
21 ก.ค. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
28 ก.ค. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
4 ส.ค. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04

11 ต.ค. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
18 ต.ค. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
25 ต.ค. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
1 ก.ย. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
8 ก.ย. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
15 ก.ย. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
22 ก.ย. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
29 ก.ย. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
6 ต.ก. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
13 ต.ก. 2545	2.000	2.000	2.000	2.000	2.000	2	0.04
20 ต.ก. 2545	1.750	2.000	1.750	2.000	2.000	1.9	0.04
27 ต.ก. 2545	1.750	2.000	1.750	1.750	1.750	1.8	0.03
3 พ.ย. 2545	1.750	1.750	1.750	1.750	1.750	1.75	0.03
10 พ.ย. 2545	1.750	1.750	1.750	1.750	1.750	1.75	0.03
17 พ.ย. 2545	1.750	1.750	1.750	1.750	1.750	1.75	0.03
24 พ.ย. 2545	1.750	1.750	1.750	1.750	1.750	1.75	0.03
1 ธ.ค. 2545	1.750	1.750	1.750	1.750	1.750	1.75	0.03
8 ธ.ค. 2545	1.750	1.750	1.750	1.750	1.750	1.75	0.03

Maximum = 0.2264423    minimum = 0.033653    average = 0.053101

ที่มา : Reuters (2002: Online)

## ภาคผนวก ง

อัตราผลตอบแทนจากตลาดและค่าชดเชยความเสี่ยงอันเนื่องมาจากตลาดในรายสัปดาห์

Q.SETI, Last Trade, Bar	Close (Last Trade)	Rmat	Q.SETI, Last Trade, Bar	Close (Last Trade)	Rmat
28/12/1997	357.13		12/7/1998	274.26	0.19
4/1/1998	372.69	4.357	19/7/1998	295.28	7.66
11/1/1998	349.67	-6.18	26/7/1998	275.44	-6.72
18/1/1998	383.01	9.53	2/8/1998	266.72	-3.17
25/1/1998	422.87	10.41	9/8/1998	247.54	-7.19
1/2/1998	495.23	17.11	16/8/1998	243.62	-1.58
8/2/1998	535.98	8.23	23/8/1998	238.92	-1.93
15/2/1998	499.97	-6.72	30/8/1998	218.85	-8.40
22/2/1998	521.83	4.37	6/9/1998	207.31	-5.27
1/3/1998	528.42	1.26	13/9/1998	212.7	2.60
8/3/1998	508.07	-3.85	20/9/1998	221.85	4.30
15/3/1998	514.24	1.21	27/9/1998	248.93	12.21
22/3/1998	499.75	-2.82	4/10/1998	251.56	1.057
29/3/1998	469.85	-5.98	11/10/1998	292.5	16.27
5/4/1998	442.96	-5.72	18/10/1998	319.22	9.14
12/4/1998	446.13	0.72	25/10/1998	321.57	0.74
19/4/1998	438.99	-1.60	1/11/1998	331.29	3.02
26/4/1998	424.79	-3.23	8/11/1998	376.60	13.68
3/5/1998	412.13	-2.98	15/11/1998	333.59	-11.42
10/5/1998	386.42	-6.24	22/11/1998	371.93	11.49
17/5/1998	369.43	-4.40	29/11/1998	373.09	0.31
24/5/1998	355.82	-3.68	6/12/1998	337.63	-9.50
31/5/1998	325.59	-8.50	13/12/1998	360.30	6.71
7/6/1998	318.16	-2.28	20/12/1998	341.92	-5.10
14/6/1998	279.37	-12.19	27/12/1998	356.16	4.16
21/6/1998	284.32	1.77	3/1/1999	355.81	-0.098
28/6/1998	264.98	-6.80	10/1/1999	399.43	12.26

5/7/1998	273.74	3.31	17/1/1999	381.82	-4.41
24/1/1999	376.48	-1.40	5/9/1999	431.12	-5.77
31/1/1999	363	-3.58	12/9/1999	430.91	-0.049
7/2/1999	337.96	-6.90	19/9/1999	438.16	1.68
14/2/1999	347.43	2.80	26/9/1999	382.01	-12.81
21/2/1999	336.57	-3.13	3/10/1999	407.23	6.602
28/2/1999	340.94	1.298	10/10/1999	393.02	-3.49
7/3/1999	336.21	-1.39	17/10/1999	385.40	-1.94
14/3/1999	345.79	2.85	24/10/1999	377.16	-2.14
21/3/1999	367.69	6.33	31/10/1999	395.55	4.88
28/3/1999	366.91	-0.21	7/11/1999	418.47	5.79
4/4/1999	357.10	-2.67	14/11/1999	432.02	3.24
11/4/1999	371.95	4.16	21/11/1999	411.55	-4.74
18/4/1999	402.54	8.22	28/11/1999	412.31	0.18
25/4/1999	401.07	-0.37	5/12/1999	414.42	0.512
2/5/1999	459.35	14.53	12/12/1999	419.77	1.29
9/5/1999	488.35	6.31	19/12/1999	439.32	4.65
16/5/1999	474.90	-2.75	26/12/1999	461.29	5.00
23/5/1999	479.33	0.93	2/1/2000	481.92	4.47
30/5/1999	453.60	-5.37	9/1/2000	453.31	-5.94
6/6/1999	476.47	5.04	16/1/2000	474.37	4.65
13/6/1999	507.06	6.42	23/1/2000	478.92	0.96
20/6/1999	518.81	2.32	30/1/2000	477.45	-0.31
27/6/1999	543.85	4.83	6/2/2000	470.34	-1.49
4/7/1999	533.33	-1.93	13/2/2000	456.12	-3.02
11/7/1999	509.58	-4.45	20/2/2000	408.35	-10.47
18/7/1999	488.51	-4.13	27/2/2000	406.66	-0.41
25/7/1999	475.73	-2.62	5/3/2000	383.13	-5.79
1/8/1999	456.81	-3.98	12/3/2000	402.40	5.03
8/8/1999	437.04	-4.33	19/3/2000	399.74	-0.66
15/8/1999	423.78	-3.03	26/3/2000	404.16	1.11
22/8/1999	440.51	3.95	2/4/2000	400.32	-0.95

29/8/1999	457.54	3.87	9/4/2000	403.45	0.78
16/4/2000	414.45	2.73	26/11/2000	285.42	-3.15
23/4/2000	395.06	-4.68	3/12/2000	273.86	-4.05
28/4/2000	390.40	-1.18	10/12/2000	273.69	-0.06
7/5/2000	379.97	-2.67	17/12/2000	273.17	-0.19
14/5/2000	345.67	-9.03	24/12/2000	267.09	-2.23
21/5/2000	343.40	-0.66	31/12/2000	269.19	0.79
28/5/2000	313.08	-8.83	7/1/2001	286.76	6.53
4/6/2000	339.28	8.37	14/1/2001	311.25	8.54
11/6/2000	341.35	0.61	21/1/2001	316.86	1.80
18/6/2000	344.49	0.92	28/1/2001	332.13	4.82
25/6/2000	333.31	-3.25	4/2/2001	334.10	0.59
2/7/2000	325.69	-2.29	11/2/2001	324.72	-2.81
9/7/2000	322.87	-0.87	18/2/2001	316	-2.69
16/7/2000	315.58	-2.26	25/2/2001	324.24	2.61
23/7/2000	305.66	-3.14	4/3/2001	306.05	-5.61
30/7/2000	291.60	-4.60	11/3/2001	307	0.31
6/8/2000	311.42	6.80	18/3/2001	293	-4.56
13/8/2000	316.60	1.66	25/3/2001	290.25	-0.94
20/8/2000	319.22	0.83	1/4/2001	291.94	0.58
27/8/2000	306.84	-3.88	8/4/2001	282.02	-3.40
3/9/2000	310.73	1.27	15/4/2001	291.28	3.28
10/9/2000	297.07	-4.40	22/4/2001	292.58	0.45
17/9/2000	293.30	-1.27	29/4/2001	297.21	1.58
24/9/2000	274.14	-6.53	6/5/2001	306.48	3.12
1/10/2000	277.29	1.15	13/5/2001	310.93	1.45
8/10/2000	267.68	-3.47	20/5/2001	300.64	-3.31
15/10/2000	254.23	-5.01	27/5/2001	311.11	3.48
22/10/2000	276.60	8.79	3/6/2001	312.06	0.31
29/10/2000	274.34	-0.82	10/6/2001	312.29	0.07
5/11/2000	287.84	4.92	17/6/2001	323.97	3.74
12/11/2000	293.23	1.87	24/6/2001	318.67	-1.64

19/11/2000	294.71	0.50	1/7/2001	322.55	1.22
8/7/2001	324.88	0.72	17/2/2002	373.02	5.50
15/7/2001	314.31	-3.25	24/2/2002	351.32	-5.82
22/7/2001	312.27	-0.65	3/3/2002	380.65	8.35
29/7/2001	301.09	-3.58	10/3/2002	390.65	2.63
5/8/2001	315.95	4.94	17/3/2002	377.39	-3.39
12/8/2001	315.87	-0.03	24/3/2002	389.31	3.16
19/8/2001	323.25	2.34	31/3/2002	373.95	-3.95
26/8/2001	332.17	2.76	7/4/2002	369.99	-1.06
2/9/2001	335.57	1.02	14/4/2002	379.63	2.61
9/9/2001	342.32	2.01	21/4/2002	386.51	1.81
16/9/2001	288.10	-15.84	28/4/2002	376.44	-2.61
23/9/2001	274.60	-4.69	5/5/2002	374.05	-0.63
30/9/2001	277.04	0.89	12/5/2002	382.09	2.15
7/10/2001	280.88	1.39	19/5/2002	378.23	-1.01
14/10/2001	284.97	1.46	26/5/2002	392.09	3.67
21/10/2001	284.72	-0.09	2/6/2002	407.96	4.05
28/10/2001	280.60	-1.45	9/6/2002	417.33	2.30
4/11/2001	274.22	-2.27	16/6/2002	422.44	1.22
11/11/2001	268.11	-2.23	23/6/2002	395.46	-6.39
18/11/2001	275.54	2.77	30/6/2002	389.10	-1.61
25/11/2001	296.77	7.70	7/7/2002	401.10	3.08
2/12/2001	302.62	1.97	14/7/2002	400.66	-0.11
9/12/2001	304.05	0.47	21/7/2002	394.23	-1.59
16/12/2001	294	-3.31	28/7/2002	366.47	-7.05
23/12/2001	296.69	0.91	4/8/2002	370.46	1.09
30/12/2001	303.85	2.41	11/8/2002	367.07	-0.92
6/1/2002	315.73	3.91	18/8/2002	373.03	1.62
13/1/2002	322.55	2.16	25/8/2002	367.01	-1.61
20/1/2002	317.52	-1.56	1/9/2002	361.16	-1.59
27/1/2002	338.99	6.76	8/9/2002	353.55	-2.11
3/2/2002	336.65	-0.69	15/9/2002	357.15	1.02

22/9/2002	351.52	-1.58
10/2/2002	353.59	5.03
29/9/2002	338.72	-3.64
6/10/2002	340.92	0.65
13/10/2002	330.41	-3.08
20/10/2002	342.46	3.65
27/10/2002	348.46	1.75
3/11/2002	357.68	2.65
10/11/2002	355	-0.74
17/11/2002	356.24	0.35
24/11/2002	362.59	1.78
1/12/2002	364.90	0.64
8/12/2002	365.09	0.05

MAXIMUM = 17.1116 MINIMUM = -15.8389 AVERAGE = 0.1244

ที่มา : Reuters (2002: Online)

## ภาคผนวก จ

อัตราผลตอบแทนจากหลักทรัพย์ SCCC, SCCC, TPIPL, SSI ในรายสัปดาห์

Last Trade, Candle	Close(Last Trade) SCCC	Rpt	Close(Last Trade) SCC	Rpt
28/12/1997	39		214	
4/1/1998	39.5	1.282051282	240	12.14953271
11/1/1998	40.5	2.53164557	190	-20.83333333
18/1/1998	49.5	22.22222222	228	20
25/1/1998	65	31.31313131	290	27.19298246
1/2/1998	75.5	16.15384615	322	11.03448276
8/2/1998	96.5	27.81456954	436	35.40372671
15/2/1998	95	-1.554404145	388	-11.00917431
22/2/1998	85.5	-10	430	10.82474227
1/3/1998	88	2.923976608	428	-0.465116279
8/3/1998	91.5	3.977272727	410	-4.205607477
15/3/1998	84	-8.196721311	428	4.390243902
22/3/1998	81	-3.571428571	464	8.411214953
29/3/1998	80.5	-0.617283951	440	-5.172413793
5/4/1998	67.5	-16.14906832	446	1.363636364
12/4/1998	65.5	-2.962962963	450	0.896860987
19/4/1998	68	3.816793893	454	0.888888889
26/4/1998	69	1.470588235	430	-5.286343612
3/5/1998	71	2.898550725	432	0.465116279
10/5/1998	68	-4.225352113	388	-10.18518519
17/5/1998	67.5	-0.735294118	354	-8.762886598
24/5/1998	64	-5.185185185	300	-15.25423729
31/5/1998	43.5	-32.03125	258	-14
7/6/1998	37.5	-13.79310345	260	0.775193798
14/6/1998	31.5	-16	199	-23.46153846
21/6/1998	30.5	-3.174603175	204	2.512562814
28/6/1998	22	-27.86885246	181	-11.2745098

5/7/1998	23	4.545454545	191	5.524861878
12/7/1998	23.5	2.173913043	191	0
19/7/1998	30.5	29.78723404	218	14.13612565
26/7/1998	33.5	9.836065574	222	1.834862385
2/8/1998	34.5	2.985074627	218	-1.801801802
9/8/1998	34	-1.449275362	187	-14.22018349
16/8/1998	37.5	10.29411765	208	11.22994652
23/8/1998	36.5	-2.666666667	208	0
30/8/1998	36.5	0	187	-10.09615385
6/9/1998	34.5	-5.479452055	174	-6.951871658
13/9/1998	35.5	2.898550725	170	-2.298850575
20/9/1998	33	-7.042253521	189	11.17647059
27/9/1998	31.5	-4.545454545	214	13.22751323
4/10/1998	32.5	3.174603175	196	-8.411214953
11/10/1998	46	41.53846154	274	39.79591837
18/10/1998	57	23.91304348	370	35.03649635
25/10/1998	51	-10.52631579	352	-4.864864865
1/11/1998	52.5	2.941176471	370	5.113636364
8/11/1998	57.5	9.523809524	442	19.45945946
15/11/1998	52.5	-8.695652174	386	-12.66968326
22/11/1998	59.5	13.33333333	542	40.41450777
29/11/1998	59.5	0	520	-4.05904059
6/12/1998	56	-5.882352941	480	-7.692307692
13/12/1998	59	5.357142857	518	7.916666667
20/12/1998	54	-8.474576271	520	0.386100386
27/12/1998	56	3.703703704	558	7.307692308
3/1/1999	58	3.571428571	560	0.358422939
10/1/1999	82.5	42.24137931	600	7.142857143
17/1/1999	81	-1.818181818	580	-3.333333333
24/1/1999	88.5	9.259259259	594	2.413793103
31/1/1999	90	1.694915254	578	-2.693602694
7/2/1999	86.5	-3.888888889	540	-6.574394464

14/2/1999	82.5	-4.624277457	582	7.777777778
21/2/1999	77	-6.666666667	544	-6.529209622
28/2/1999	77	0	546	0.367647059
7/3/1999	77	0	550	0.732600733
14/3/1999	77	0	560	1.818181818
21/3/1999	88.5	14.93506494	560	0
28/3/1999	98.5	11.29943503	560	0
4/4/1999	93.5	-5.076142132	538	-3.928571429
11/4/1999	98	4.812834225	572	6.319702602
18/4/1999	101.5	3.571428571	580	1.398601399
25/4/1999	111.5	9.852216749	608	4.827586207
2/5/1999	132	18.38565022	712	17.10526316
9/5/1999	144	9.090909091	760	6.741573034
16/5/1999	140	-2.777777778	704	-7.368421053
23/5/1999	138	-1.428571429	704	0
30/5/1999	124	-10.14492754	660	-6.25
6/6/1999	131	5.64516129	660	0
13/6/1999	128	-2.290076336	716	8.484848485
20/6/1999	123	-3.90625	688	-3.910614525
27/6/1999	144	17.07317073	712	3.488372093
4/7/1999	143	-0.694444444	696	-2.247191011
11/7/1999	137	-4.195804196	680	-2.298850575
18/7/1999	136	-0.729927007	668	-1.764705882
25/7/1999	136	0	648	-2.994011976
1/8/1999	137	0.735294118	592	-8.641975309
8/8/1999	133	-2.919708029	612	3.378378378
15/8/1999	130	-2.255639098	594	-2.941176471
22/8/1999	126	-3.076923077	596	0.336700337
29/8/1999	138	9.523809524	604	1.342281879
5/9/1999	138	0	570	-5.629139073
12/9/1999	139	0.724637681	536	-5.964912281
19/9/1999	134	-3.597122302	536	0

26/9/1999	118	-11.94029851	488	-8.955223881
3/10/1999	127	7.627118644	506	3.68852459
10/10/1999	131	3.149606299	528	4.347826087
17/10/1999	134	2.290076336	560	6.060606061
24/10/1999	131	-2.23880597	536	-4.285714286
31/10/1999	135	3.053435115	572	6.71641791
7/11/1999	137	1.481481481	628	9.79020979
14/11/1999	145	5.839416058	640	1.910828025
21/11/1999	146	0.689655172	590	-7.8125
28/11/1999	148	1.369863014	636	7.796610169
5/12/1999	156	5.405405405	664	4.402515723
12/12/1999	154	-1.282051282	652	-1.807228916
19/12/1999	174	12.98701299	740	13.49693252
26/12/1999	176	1.149425287	708	-4.324324324
2/1/2000	179	1.704545455	740	4.519774011
9/1/2000	163	-8.938547486	668	-9.72972973
16/1/2000	165	1.226993865	668	0
23/1/2000	158	-4.242424242	648	-2.994011976
30/1/2000	157	-0.632911392	644	-0.617283951
6/2/2000	145	-7.643312102	636	-1.242236025
13/2/2000	134	-7.586206897	588	-7.547169811
20/2/2000	110	-17.91044776	482	-18.02721088
27/2/2000	116	5.454545455	480	-0.414937759
5/3/2000	116	0	432	-10
12/3/2000	130	12.06896552	498	15.27777778
19/3/2000	126	-3.076923077	520	4.417670683
26/3/2000	118	-6.349206349	492	-5.384615385
2/4/2000	121	2.542372881	526	6.910569106
9/4/2000	124	2.479338843	540	2.661596958
16/4/2000	119	-4.032258065	550	1.851851852
23/4/2000	110	-7.56302521	522	-5.090909091
30/4/2000	111	0.909090909	526	0.766283525

7/5/2000	111	0	526	0
14/5/2000	90	-18.91891892	480	-8.745247148
21/5/2000	94	4.444444444	448	-6.666666667
28/5/2000	92.5	-1.595744681	434	-3.125
4/6/2000	107	15.67567568	442	1.843317972
11/6/2000	128	19.62616822	450	1.809954751
18/6/2000	129	0.78125	452	0.444444444
25/6/2000	132	2.325581395	450	-0.442477876
2/7/2000	139	5.303030303	434	-3.555555556
9/7/2000	132	-5.035971223	432	-0.460829493
16/7/2000	124	-6.060606061	404	-6.481481481
23/7/2000	115	-7.258064516	380	-5.940594059
30/7/2000	115	0	336	-11.57894737
6/8/2000	119	3.47826087	364	8.333333333
13/8/2000	120	0.840336134	358	-1.648351648
20/8/2000	117	-2.5	332	-7.262569832
27/8/2000	123	5.128205128	334	0.602409639
3/9/2000	121	-1.62601626	332	-0.598802395
10/9/2000	118	-2.479338843	310	-6.626506024
17/9/2000	112	-5.084745763	288	-7.096774194
24/9/2000	102	-8.928571429	262	-9.027777778
1/10/2000	100	-1.960784314	264	0.763358779
8/10/2000	99	-1	262	-0.757575758
15/10/2000	92	-7.070707071	244	-6.870229008
22/10/2000	102	10.86956522	306	25.40983607
29/10/2000	106	3.921568627	288	-5.882352941
5/11/2000	109	2.830188679	302	4.861111111
12/11/2000	108	-0.917431193	304	0.662251656
19/11/2000	112	3.703703704	300	-1.315789474
26/11/2000	108	-3.571428571	292	-2.666666667
3/12/2000	110	1.851851852	280	-4.109589041
10/12/2000	113	2.727272727	286	2.142857143

17/12/2000	115	1.769911504	292	2.097902098
24/12/2000	115	0	276	-5.479452055
31/12/2000	118	2.608695652	278	0.724637681
7/1/2001	122	3.389830508	300	7.913669065
14/1/2001	135	10.6557377	316	5.333333333
21/1/2001	142	5.185185185	312	-1.265822785
28/1/2001	142	0	322	3.205128205
4/2/2001	126	-11.26760563	312	-3.105590062
11/2/2001	119	-5.555555556	310	-0.641025641
18/2/2001	115	-3.361344538	300	-3.225806452
25/2/2001	123	6.956521739	292	-2.666666667
4/3/2001	120	-2.43902439	290	-0.684931507
11/3/2001	129	7.5	282	-2.75862069
18/3/2001	124	-3.875968992	274	-2.836879433
25/3/2001	122	-1.612903226	276	0.729927007
1/4/2001	128	4.918032787	260	-5.797101449
8/4/2001	125	-2.34375	262	0.769230769
15/4/2001	129	3.2	282	7.633587786
22/4/2001	129	0	280	-0.709219858
29/4/2001	139	7.751937984	290	3.571428571
6/5/2001	136	-2.158273381	312	7.586206897
13/5/2001	133	-2.205882353	334	7.051282051
20/5/2001	123	-7.518796992	336	0.598802395
27/5/2001	126	2.43902439	392	16.666666667
3/6/2001	123	-2.380952381	398	1.530612245
10/6/2001	130	5.691056911	400	0.502512563
17/6/2001	130	0	422	5.5
24/6/2001	127	-2.307692308	420	-0.473933649
1/7/2001	127	0	426	1.428571429
8/7/2001	127	0	450	5.633802817
15/7/2001	127	0	466	3.555555556
22/7/2001	128	0.787401575	444	-4.721030043

29/7/2001	127	-0.78125	392	-11.71171171
5/8/2001	127	0	392	0
12/8/2001	138	8.661417323	434	10.71428571
19/8/2001	143	3.623188406	440	1.382488479
26/8/2001	145	1.398601399	484	10
2/9/2001	150	3.448275862	468	-3.305785124
9/9/2001	153	2	494	5.555555556
16/9/2001	140	-8.496732026	426	-13.76518219
23/9/2001	142	1.428571429	410	-3.755868545
30/9/2001	146	2.816901408	408	-0.487804878
7/10/2001	136	-6.849315068	398	-2.450980392
14/10/2001	139	2.205882353	414	4.020100503
21/10/2001	144	3.597122302	412	-0.483091787
28/10/2001	141	-2.083333333	406	-1.45631068
4/11/2001	134	-4.964539007	402	-0.985221675
11/11/2001	128	-4.47761194	366	-8.955223881
18/11/2001	128	0	428	16.93989071
25/11/2001	131	2.34375	436	1.869158879
2/12/2001	128	-2.290076336	448	2.752293578
9/12/2001	131	2.34375	488	8.928571429
16/12/2001	128	-2.290076336	468	-4.098360656
23/12/2001	130	1.5625	472	0.854700855
30/12/2001	143	10	464	-1.694915254
6/1/2002	136	-4.895104895	492	6.034482759
13/1/2002	146	7.352941176	540	9.756097561
20/1/2002	140	-4.109589041	584	8.148148148
27/1/2002	153	9.285714286	628	7.534246575
3/2/2002	144	-5.882352941	624	-0.636942675
10/2/2002	135	-6.25	648	3.846153846
17/2/2002	150	11.11111111	716	10.49382716
24/2/2002	138	-8	684	-4.469273743
3/3/2002	170	23.1884058	756	10.52631579

10/3/2002	186	9.411764706	854	12.96296296
17/3/2002	179	-3.76344086	842	-1.405152225
24/3/2002	204	13.96648045	848	0.712589074
31/3/2002	200	-1.960784314	836	-1.41509434
7/4/2002	196	-2	842	0.717703349
14/4/2002	199	1.530612245	842	0
21/4/2002	204	2.512562814	854	1.425178147
28/4/2002	204	0	848	-0.702576112
5/5/2002	204	0	860	1.41509434
12/5/2002	224	9.803921569	854	-0.697674419
19/5/2002	216	-3.571428571	818	-4.215456674
26/5/2002	238	10.18518519	884	8.068459658
2/6/2002	238	0	950	7.466063348
9/6/2002	242	1.680672269	1,052.00	10.73684211
16/6/2002	246	1.652892562	1,004.00	-4.562737643
23/6/2002	222	-9.756097561	932	-7.171314741
30/6/2002	224	0.900900901	950	1.931330472
7/7/2002	228	1.785714286	974	2.526315789
14/7/2002	226	-0.877192982	992	1.848049281
21/7/2002	218	-3.539823009	968	-2.419354839
28/7/2002	194	-11.00917431	896	-7.438016529
4/8/2002	195	0.515463918	962	7.366071429
11/8/2002	196	0.512820513	872	-9.355509356
18/8/2002	200	2.040816327	944	8.256880734
25/8/2002	192	-4	926	-1.906779661
1/9/2002	194	1.041666667	908	-1.943844492
8/9/2002	189	-2.577319588	908	0
15/9/2002	190	0.529100529	926	1.982378855
22/9/2002	194	2.105263158	920	-0.647948164
29/9/2002	191	-1.546391753	812	-11.73913043
6/10/2002	183	-4.188481675	818	0.738916256
13/10/2002	162	-11.47540984	792	-3.178484108

20/10/2002	170	4.938271605	866	9.343434343
27/10/2002	177	4.117647059	902	4.15704388
3/11/2002	197	11.29943503	1,004.00	11.30820399
10/11/2002	190	-3.553299492	1,004.00	0
17/11/2002	195	2.631578947	1,022.00	1.792828685
24/11/2002	189	-3.076923077	1,082.00	5.870841487
1/12/2002	192	1.587301587	1,124.00	3.881700555
8/12/2002	193	0.520833333	1,136.00	1.067615658

Last Trade, Candle	Close(Last Trade) SSI	Rpt	Close(Last Trade) TPIPL	Rpt
	1.1		2.2	
4/1/1998	1	-9.090909091	2.2	0
11/1/1998	1	0	2.3	4.545454545
18/1/1998	1.2	20	2.4	4.347826087
25/1/1998	1.6	33.33333333	3.7	54.16666667
1/2/1998	1.7	6.25	4	8.108108108
8/2/1998	2.2	29.41176471	7.6	90
15/2/1998	2	-9.090909091	6.7	-11.84210526
22/2/1998	2.7	35	6.4	-4.47761194
1/3/1998	3.4	25.92592593	8	25
8/3/1998	3.1	-8.823529412	7.7	-3.75
15/3/1998	3.1	0	NA	NA
22/3/1998	3.9	25.80645161	NA	NA
29/3/1998	3.7	-5.128205128	NA	NA
5/4/1998	3	-18.91891892	NA	NA
12/4/1998	3	0	5.4	-29.87012987
19/4/1998	3.1	3.333333333	5.1	-5.555555556
26/4/1998	3.9	25.80645161	4.3	-15.68627451
3/5/1998	3.2	-17.94871795	4.5	4.651162791
10/5/1998	3.3	3.125	4.2	-6.666666667
17/5/1998	3	-9.090909091	3.8	-9.523809524
24/5/1998	2.3	-23.33333333	3.2	-15.78947368

31/5/1998	2.3	0	3.4	6.25
7/6/1998	2.2	-4.347826087	3.5	2.941176471
14/6/1998	1.8	-18.18181818	3	-14.28571429
21/6/1998	1.6	-11.11111111	2.9	-3.333333333
28/6/1998	1.5	-6.25	2.7	-6.896551724
5/7/1998	1.6	6.666666667	2.9	7.407407407
12/7/1998	1.5	-6.25	2.7	-6.896551724
19/7/1998	1.6	6.666666667	3.1	14.81481481
26/7/1998	1.6	0	2.9	-6.451612903
2/8/1998	1.5	-6.25	2.7	-6.896551724
9/8/1998	1.4	-6.666666667	2.6	-3.703703704
16/8/1998	1.3	-7.142857143	2.7	3.846153846
23/8/1998	1.2	-7.692307692	2.4	-11.11111111
30/8/1998	1	-16.66666667	2.2	-8.333333333
6/9/1998	1	0	1.9	-13.63636364
13/9/1998	1	0	2.2	15.78947368
20/9/1998	1.1	10	2.3	4.545454545
27/9/1998	1.2	9.090909091	2.3	0
4/10/1998	1.2	0	2.9	26.08695652
11/10/1998	1.7	41.66666667	6.5	124.137931
18/10/1998	2.4	41.17647059	6.9	6.153846154
25/10/1998	3	25	7.9	14.49275362
1/11/1998	3.2	6.666666667	5.9	-25.3164557
8/11/1998	3.3	3.125	7.4	25.42372881
15/11/1998	2.3	-30.3030303	6.1	-17.56756757
22/11/1998	3.1	34.7826087	10	63.93442623
29/11/1998	2.8	-9.677419355	9.1	-9
6/12/1998	2.4	-14.28571429	5.5	-39.56043956
13/12/1998	2.5	4.166666667	6.6	20
20/12/1998	2.3	-8	5.6	-15.15151515
27/12/1998	2.6	13.04347826	5.9	5.357142857
3/1/1999	2.6	0	6.1	3.389830508
10/1/1999	2.8	7.692307692	7.5	22.95081967
17/1/1999	2.8	0	7.3	-2.666666667

24/1/1999	2.6	-7.142857143	7.5	2.739726027
31/1/1999	2.9	11.53846154	7.3	-2.666666667
7/2/1999	2.6	-10.34482759	6.3	-13.69863014
14/2/1999	2.5	-3.846153846	5.5	-12.6984127
21/2/1999	2.5	0	5.6	1.818181818
28/2/1999	2.4	-4	5.7	1.785714286
7/3/1999	1.8	-25	6	5.263157895
14/3/1999	1.8	0	5.6	-6.666666667
21/3/1999	1.9	5.555555556	6.2	10.71428571
28/3/1999	1.6	-15.78947368	6.1	-1.612903226
4/4/1999	1.4	-12.5	5.7	-6.557377049
11/4/1999	1.5	7.142857143	5.7	0
18/4/1999	1.6	6.666666667	6.3	10.52631579
25/4/1999	1.7	6.25	7.1	12.6984127
2/5/1999	2.9	70.58823529	8.4	18.30985915
9/5/1999	3	3.448275862	13	54.76190476
16/5/1999	2.8	-6.666666667	15	15.38461538
23/5/1999	3.6	28.57142857	14.75	-1.666666667
30/5/1999	4.3	19.44444444	13.75	-6.779661017
6/6/1999	5.2	20.93023256	15.5	12.72727273
13/6/1999	8.5	63.46153846	17.5	12.90322581
20/6/1999	8	-5.882352941	21	20
27/6/1999	9.5	18.75	28.25	34.52380952
4/7/1999	8.3	-12.63157895	26.75	-5.309734513
11/7/1999	8.7	4.819277108	24.25	-9.345794393
18/7/1999	7.4	-14.94252874	23.5	-3.092783505
25/7/1999	7.7	4.054054054	23.75	1.063829787
1/8/1999	7.8	1.298701299	24	1.052631579
8/8/1999	7.4	-5.128205128	22	-8.333333333
15/8/1999	6	-18.91891892	20.75	-5.681818182
22/8/1999	5.8	-3.333333333	22.25	7.228915663
29/8/1999	5.9	1.724137931	22.5	1.123595506
5/9/1999	5.2	-11.86440678	21.25	-5.555555556
12/9/1999	5.7	9.615384615	20.5	-3.529411765

19/9/1999	6.1	7.01754386	20.5	0
26/9/1999	5.3	-13.1147541	15	-26.82926829
3/10/1999	6.3	18.86792453	17.25	15
10/10/1999	6.8	7.936507937	17.25	0
17/10/1999	6.8	0	16.75	-2.898550725
24/10/1999	7	2.941176471	16.5	-1.492537313
31/10/1999	8.1	15.71428571	18	9.090909091
7/11/1999	8	-1.234567901	17.5	-2.777777778
14/11/1999	8.3	3.75	20	14.28571429
21/11/1999	7.7	-7.228915663	15.75	-21.25
28/11/1999	7.4	-3.896103896	16.75	6.349206349
5/12/1999	7	-5.405405405	17.75	5.970149254
12/12/1999	6.8	-2.857142857	16.5	-7.042253521
19/12/1999	6.9	1.470588235	17	3.03030303
26/12/1999	7.2	4.347826087	16.75	-1.470588235
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16/1/2000	7.1	4.411764706	17.5	1.449275362
23/1/2000	7.6	7.042253521	18	2.857142857
30/1/2000	7.5	-1.315789474	17	-5.555555556
6/2/2000	7.4	-1.333333333	18	5.882352941
13/2/2000	7	-5.405405405	15.5	-13.88888889
20/2/2000	6.5	-7.142857143	12.25	-20.96774194
27/2/2000	6.7	3.076923077	12.25	0
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12/3/2000	6.3	1.612903226	11.25	4.651162791
19/3/2000	6.5	3.174603175	11.5	2.222222222
26/3/2000	6.3	-3.076923077	11.25	-2.173913043
2/4/2000	6.1	-3.174603175	11.25	0
9/4/2000	6	-1.639344262	12.5	11.11111111
16/4/2000	6.3	5	15.25	22
23/4/2000	6.5	3.174603175	12.25	-19.67213115
30/4/2000	6.3	-3.076923077	12.25	0
7/5/2000	6.2	-1.587301587	12	-2.040816327

14/5/2000	5.9	-4.838709677	10.75	-10.41666667
21/5/2000	4.9	-16.94915254	9.8	-8.837209302
28/5/2000	4.3	-12.24489796	8.9	-9.183673469
4/6/2000	4.6	6.976744186	10.5	17.97752809
11/6/2000	4.5	-2.173913043	10.75	2.380952381
18/6/2000	4.5	0	12.25	13.95348837
25/6/2000	4.3	-4.444444444	13	6.12244898
2/7/2000	4.1	-4.651162791	13	0
9/7/2000	4.1	0	13.5	3.846153846
16/7/2000	4	-2.43902439	13	-3.703703704
23/7/2000	3.9	-2.5	12.75	-1.923076923
30/7/2000	3.6	-7.692307692	10	-21.56862745
6/8/2000	4.1	13.88888889	11	10
13/8/2000	4	-2.43902439	11	0
20/8/2000	4	0	11	0
27/8/2000	3.7	-7.5	10.5	-4.545454545
3/9/2000	3.8	2.702702703	10.5	0
10/9/2000	3.5	-7.894736842	10	-4.761904762
17/9/2000	3.6	2.857142857	9.9	-1
24/9/2000	3.2	-11.11111111	10	1.01010101
1/10/2000	3.3	3.125	10.25	2.5
8/10/2000	3.2	-3.03030303	9	-12.19512195
15/10/2000	2.9	-9.375	8.3	-7.777777778
22/10/2000	3	3.448275862	9	8.43373494
29/10/2000	3	0	9.8	8.888888889
5/11/2000	2.9	-3.333333333	9.8	0
12/11/2000	3	3.448275862	11	12.24489796
19/11/2000	3	0	10.25	-6.818181818
26/11/2000	3	0	10.25	0
3/12/2000	2.7	-10	9.6	-6.341463415
10/12/2000	2.7	0	9.9	3.125
17/12/2000	2.5	-7.407407407	9.9	0
24/12/2000	2.5	0	9.9	0
31/12/2000	2.4	-4	9.6	-3.03030303

7/1/2001	2.5	4.166666667	9.9	3.125
14/1/2001	2.7	8	10.25	3.535353535
21/1/2001	2.9	7.407407407	10.25	0
28/1/2001	3.5	20.68965517	11	7.317073171
4/2/2001	3.4	-2.857142857	11.25	2.272727273
11/2/2001	3	-11.76470588	10.5	-6.666666667
18/2/2001	2.9	-3.333333333	10.25	-2.380952381
25/2/2001	2.9	0	10.5	2.43902439
4/3/2001	2.7	-6.896551724	9.9	-5.714285714
11/3/2001	2.7	0	9.7	-2.02020202
18/3/2001	2.5	-7.407407407	8.4	-13.40206186
25/3/2001	2.3	-8	6.6	-21.42857143
1/4/2001	2.3	0	7	6.060606061
8/4/2001	2.3	0	7	0
15/4/2001	2.4	4.347826087	10	42.85714286
22/4/2001	2.3	-4.166666667	10	0
29/4/2001	2.4	4.347826087	9.1	-9
6/5/2001	2.2	-8.333333333	8.5	-6.593406593
13/5/2001	2	-9.090909091	9	5.882352941
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27/5/2001	2.1	0	11.5	9.523809524
3/6/2001	2.2	4.761904762	12.75	10.86956522
10/6/2001	2.2	0	12	-5.882352941
17/6/2001	2.4	9.090909091	12.25	2.083333333
24/6/2001	2.2	-8.333333333	10.5	-14.28571429
1/7/2001	2.6	18.18181818	10.75	2.380952381
8/7/2001	2.8	7.692307692	11.5	6.976744186
15/7/2001	2.5	-10.71428571	9.9	-13.91304348
22/7/2001	2.5	0	9.8	-1.01010101
29/7/2001	2.5	0	10.25	4.591836735
5/8/2001	2.5	0	10.5	2.43902439
12/8/2001	2.7	8	11.5	9.523809524
19/8/2001	2.7	0	11.5	0
26/8/2001	2.7	0	12	4.347826087

2/9/2001	2.8	3.703703704	15.5	29.16666667
9/9/2001	2.6	-7.142857143	14.75	-4.838709677
16/9/2001	2	-23.07692308	9.9	-32.88135593
23/9/2001	2	0	10.25	3.535353535
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7/10/2001	2.1	5	11.25	4.651162791
14/10/2001	2.3	9.523809524	11	-2.222222222
21/10/2001	2.5	8.695652174	11.5	4.545454545
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4/11/2001	2.3	-8	11.75	0
11/11/2001	2.34	1.739130435	10.8	-8.085106383
18/11/2001	2.42	3.418803419	11	1.851851852
25/11/2001	2.8	15.70247934	12.5	13.63636364
2/12/2001	2.64	-5.714285714	12.7	1.6
9/12/2001	3	13.63636364	12.7	0
16/12/2001	2.88	-4	12.1	-4.724409449
23/12/2001	2.9	0.694444444	11.6	-4.132231405
30/12/2001	2.76	-4.827586207	11.7	0.862068966
6/1/2002	2.88	4.347826087	12	2.564102564
13/1/2002	3.02	4.861111111	13.6	13.33333333
20/1/2002	2.74	-9.271523179	12.2	-10.29411765
27/1/2002	2.82	2.919708029	12.9	5.737704918
3/2/2002	3	6.382978723	12.9	0
10/2/2002	3.12	4	13.7	6.201550388
17/2/2002	3.24	3.846153846	14.2	3.649635036
24/2/2002	3.16	-2.469135802	14.2	0
3/3/2002	3.26	3.164556962	13.5	-4.929577465
10/3/2002	3.24	-0.613496933	13.3	-1.481481481
17/3/2002	3.12	-3.703703704	12.9	-3.007518797
24/3/2002	3.2	2.564102564	14.8	14.72868217
31/3/2002	3.04	-5	13.2	-10.81081081
7/4/2002	3.1	1.973684211	13.8	4.545454545
14/4/2002	3.84	23.87096774	14.1	2.173913043
21/4/2002	4.24	10.41666667	14.4	2.127659574

28/4/2002	4.4	3.773584906	14.1	-2.083333333
5/5/2002	4.26	-3.181818182	14	-0.709219858
12/5/2002	4.32	1.408450704	15.9	13.57142857
19/5/2002	4.7	8.796296296	15.1	-5.031446541
26/5/2002	5.6	19.14893617	15.8	4.635761589
2/6/2002	6.2	10.71428571	19	20.25316456
9/6/2002	6.25	0.806451613	19.7	3.684210526
16/6/2002	6.25	0	24.5	24.36548223
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30/6/2002	6.05	-3.968253968	20.9	-5.855855856
7/7/2002	7.35	21.48760331	22.8	9.090909091
14/7/2002	7.5	2.040816327	22.7	-0.438596491
21/7/2002	7.6	1.333333333	20.5	-9.691629956
28/7/2002	7.25	-4.605263158	19.3	-5.853658537
4/8/2002	7.05	-2.75862069	18.6	-3.626943005
11/8/2002	6.85	-2.836879433	18.5	-0.537634409
18/8/2002	7.15	4.379562044	17.3	-6.486486486
25/8/2002	6.75	-5.594405594	16.7	-3.468208092
1/9/2002	6.7	-0.740740741	15.1	-9.580838323
8/9/2002	6.45	-3.731343284	15.7	3.973509934
15/9/2002	6.4	-0.775193798	16.4	4.458598726
22/9/2002	6.65	3.90625	15.3	-6.707317073
29/9/2002	6.35	-4.511278195	14.1	-7.843137255
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13/10/2002	6.6	2.325581395	12.6	-16
20/10/2002	7.3	10.60606061	13.1	3.968253968
27/10/2002	7.4	1.369863014	12.8	-2.290076336
3/11/2002	7.7	4.054054054	14.1	10.15625
10/11/2002	7.85	1.948051948	13.2	-6.382978723
17/11/2002	7.7	-1.910828025	13.4	1.515151515
24/11/2002	7.8	1.298701299	13.7	2.23880597
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8/12/2002	8.75	8.024691358	13.4	0

SCCC      MAXIMUM = 42.241      MINIMUM = -35.135      AVERAGE = 0.812

SCC	MAXIMUM = 40.4145	MINIMUM = -23.461	AVERAGE = 0.63961
SSI	MAXIMUM = 70.5882	MINIMUM = -30.303	AVERAGE = 0.836847
TPIPL	MAXIMUM = 124.137	MINIMUM = -39.560	AVERAGE = 0.81320

ที่มา : Reuters (2002: Online)

มหาวิทยาลัยเชียงใหม่  
Chiang Mai University

**ประวัติผู้เขียน**

ชื่อ	นางสาวอุมาภรณ์ เตรียมพัฒนา
วัน เดือน ปี เกิด	2 มีนาคม 2523
ประวัติการศึกษา	สำเร็จการศึกษามัธยมศึกษาตอนปลาย โรงเรียนบุญวาทย์วิทยาลัย จังหวัดลำปาง ปีการศึกษา 2540 สำเร็จการศึกษาระดับปริญญาวิทยาศาสตรบัณฑิต สาขาวิชาสถิติ ประยุกต์ มหาวิทยาลัยพายัพ จังหวัดเชียงใหม่ ปีการศึกษา 2544
ผลงานวิจัย	ปัจจัยที่มีผลต่อผลสัมฤทธิ์ทางการเรียนของนักศึกษามหาวิทยาลัย พายัพ จังหวัดเชียงใหม่ ปีการศึกษา 2544