Financial Management University Elective Credit Management

Numerical 1

The effect of relaxing credit policy on the resideral income would be:

$$= [50,00,000 \times 0.10 - 50,00,000 \times 0.04] (1-0.4) - 0.12 (500000)$$

$$\frac{\overline{W}}{\Delta I} = \frac{\Delta S}{360} \times ACP \times V = \frac{50,00,000}{360} \times 40 \times 0.9 = 5,00,000$$

Answer: Since the impact of relaxing credit policy on net profit is positive, the proposed change is desirable.

The effect of relaxing credit policy on the residual income would be:

$$\Delta RI = [\Delta S(I-V) - \Delta Sbn](I-t) - K\Delta I$$

$$= [12000000(0.18) - 12000000(0.08)](1-04) - 0.18(1968000)$$

$$= (2160000 - 960000)(0.6) - 354240$$

$$= 3,65,760$$

→WN1

$$\Delta I = \Delta S \times ACP \times V = \frac{12000000}{360} \times 72 \times 0.82 = 1968000$$

Answer: Since the impact of relaxing credit policy on net profit is positive, the proposed change is desirable.

Numerical 3

The effect of lengthening the credit period on the residual income coould be:

$$\Delta RI = [\Delta s(1-v) - \Delta sbn](1-t) - K\Delta I$$

$$\Delta I = (ACP_N - ACP_0) \left[\frac{S_0}{360} \right] + V(ACP_N) \frac{\Delta S}{360}$$

$$= (100-90) \left[\frac{400000000}{360} \right] + 0.6 \times 100 \times \frac{1500000}{360}$$

Answers: Since the impact of lengthening the credit period on the net profit is positive, the proposed alternative is desirable.

4

The effect of lengthening the credit period on the residual income would be:

$$= [2500000(1-0.80) - 2500000(0.02)](1-0.35) - 0.10(1388889)$$

$$= (500000 - 50,000)(0.65) - 138889$$

$$\Delta I = (ACP_N - ACP_0) \left[\frac{S_0}{360} \right] + V(ACP_N) \frac{\Delta S}{360}$$

$$= (SD - 30) \left[\frac{20000000}{360} \right] + 0.80 \times SO \times \frac{2500000}{360}$$

Answer: Since the impact of lengthening the Credit period on the net profit is positive, the proposed alternative is desirable.

* Humerical 5

The effect of relaxing discount policy on the residual encome would be:

- 51546.6

$$=0.35(10000000+6000000)0.02-0.15(100000000)(0.01)$$

= 59200

$$\Delta I = \frac{SO}{360} \left(ACP_O - ACP_N \right) - V \underline{\Delta S} \quad ACP_N$$

$$= \frac{10000000(12-8) - 0.8 \times \underline{600000}}{360} \times 8$$

$$= 111111 - 10667 = 100444$$

Answer: since the impact of relavoing the discount policy on residual income is positive, the proposed alternative is desirable.

The effect of relaxing discount policy on the residual income would be:

$$= 312000(0.6) + 60800$$

$$= 264000 - 96000 = 168000$$

$$= \frac{24000000 \left(48 - 36\right) - 0.80}{360} \times \frac{2400000}{360} \times 36$$

$$= 800000 - 192000 = 608000$$

Answer: Since the impact of relaxing discount policy on the residual income is positive, the proposed alternative is desirable

* Mumerical 7

The effect of relacing the collection effort on the residual income would be:

$$= [2000000(1-0.70) - 620000](1-0.4) - 0.15(179|111)$$

$$= -12000 - 268667$$

$$= -28066\overline{7}$$

$$\Delta BD = bn (S_0 + \Delta S) - boSo - 0.05 (50000000)$$

$$= 0.06(50000000 + 20000000) - 0.05(50000000)$$

$$\Delta I = \frac{90}{360} \left(ACP_N - ACP_0 \right) + \underline{\Delta S} \quad ACP_N V$$

$$= \frac{500000000}{360} \left(32-20\right) + \frac{2000000}{360} \times 32 \times 0.7$$

Answers Since the impact of relaxing counction effort on the residual income is regative, The proposed alternative is not desirable.

The effect of maxing collection effort on the residual income coould be:

$$= [3000000(1-0.8) - 950000](1-0.3) - 0.12(2044445)$$

$$=0.01(80000000+30000000)-0.04(800000000)$$

$$=\frac{800000000}{360}(40-32)+\frac{30000000}{360}\times40\times0.80$$

Answer: gince the impact of relaxing collection effort on the residual income is or equilive, the proposed alternative is not desirable

* Mumuical 9

20-1. of the sales will be collected on the 10th day 80-1. Of the sales will be collected on the 40th day ACP = 0.20×10 + 0.8×40 = 34 days

Value of uceivables = $\frac{9ales}{360} \times ACP$ = $\frac{100000000}{360} \times 34$

Assuming v is the proportion of variable cost to sales, the investment in receivables is:

= 9444444

Rs 9444444 X V

40-1. of the sales will be collected on the 15th day 60-1. of the sales will be collected on the 25th day ACP = 0.4x15 + 0.6x25 = 21 days

value of receivables = Sales x ACP

= 1166667

variable cost ratio = $\frac{150000000(\cos s)}{20000000(sales)} = 0.75$

Investment in Receivables = 1166667 x 0.75 = 875000