

SNS College of Technology Coimbatore - 35



23BAT611– Financial Management

Unit - III COST OF CAPITAL & CAPITAL STRUCTURE



Presented by

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Discussed Problem related to Equity Share capital and retained earning

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Leverage.



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Problem : 3

The following projections have been give in respect of companies X and Y.

Particulars	Company X	Company Y
Volume of output & Sales	80,000 units	1,00,000 Units
Variable cost per unit	Rs. 4	Rs. 3
Fixed Cost	Rs. 2,40,000	Rs. 2,50,000
Interest burden on debt	Rs. 1,20,000	Rs. 50,000
Selling price per unit	Rs. 10	Rs. 8



On the basis of above information calculate (a) Operating Leverage (b) Financial Leverage (c) Combined Leverage (d) operating break – Even point (e) Financial break – even point.





Particulars	Company X	Company Y
Sales (80,000*10) Company X (100,000*8) Company y	8,00,000	8,00,000
Less : Variable Costs (80,000*4) Company X (100,000*3) Company y	3,20,000	3,00,000
Contribution	4,80,000	5,00,000
Less : Fixed Costs	2,40,000	2,50,000
Operating Profit (EBIT)	2,40,000	2,50,000
Less : Interest	1,20,000	50,000
Profit Before Tax (PBT) EBT	1,20,000	2,00,000

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Formula for Leverage

- a) Operating Leverage = Contribution / Operating Profit (or) Contribution / EBIT
- b) Financial Leverage = Operating Profit /Profit Before Tax (or) EBIT / EBT
- c) Combined Leverage = Operating Leverage * Financial Leverage
- d) **Operating B.E.P Units = Fixed Costs / Contribution p.u**
- e) Financial B.E.P (in Rs.) = Fixed Costs / Contribution p.u * S.P. p.u





Formula for Leverage

- a) Operating Leverage = Contribution / Operating Profit (or) Contribution / EBIT
 Operating Leverage X = 4,80,000 / 2,40,000 = 2 Times
 Operating Leverage Y = 5,00,000 / 2,50,000 = 2 Times
- b) Financial Leverage = Operating Profit /Profit Before Tax (or) EBIT/ EBT
 - **Financial Leverage X** = 2,40,000 / 1,20,000 = 2 **Times**

Financial Leverage Y = 2,50,000 / 2,00,000 = 1.25 Times





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Formula for Leverage

- c) Combined Leverage = Operating Leverage * Financial Leverage
 - **Combined Leverage X = 2 * 2 = 4 Times**
 - **Combined Leverage** Y = 2 * 1.25 = 2.5 **Times**
- d) Operating B.E.P Units = Fixed Costs / Contribution p.u
- **Operating B.E.P Units X = 2,40,000/6 = 40,000 Units**
- **Operating B.E.P Units Y = 2,50,000/5 = 50,000 Units**

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- e) Financial B.E.P (in Rs.) = Fixed Costs / Contribution p.u * S.P. p.u
- Financial B.E.P (in Rs.) X = 2,40,000/6*10 = Rs. 4,00,000
- Financial B.E.P (in Rs.) Y = 2,50,000/5*8 = Rs. 4,00,000







Leverage



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