SOLUTION

Table Showing Income Statement

Dank's a			
Particulars	Amount (₹ in lakh)		
EBIT	9.00		
Less: Interest on debt	1.00		
EBT	8.00		
Less: Tax @ 30% o EBT	2.40		
EAT	5.60		

DFL = EBIT/ $\{EBT - (Preference dividend amount)/(1 - t)\}$

DFL = $9/\{8 - (1.20)/(1 - 0.30)\} = 1.43$

EPS = (5.60 - 1.2)/3 =₹ 1.47

DFL 1.43 implies that if EBIT changes by 1% from the given level of ₹ 9 lakh, then the EPS will change by 1.43 from the present level of EPS ₹ 1.47.

Now when EBIT changes by 40% then EPS will change by 57.20 % (1.43 \times 40).

From the following balance sheet, calculate solvency group ratio. EXAMPLE 3

Liabilities	Amount (₹)	Assets	Amount (₹)
Equity Share Capital Preference Share Capital General Reserves Securities premium P & L Account Debentures Secured Bank Loan Bank Overdraft Sundry Creditors Tax Payable Dividend Payable	5,00,000 1,50,000 70,000 30,000 1,25,000 1,50,000 45,000 55,000 1,00,000 60,000	Land & Building Plant & Machinery Furniture Investment Stock Sundry Debtors Bills Receivables Cash and Bank Prepaid Expenses Marketable Securities Preliminary Expenses Goodwill Patents	5,30,000 1,10,000 20,000 90,000 95,000 1,75,000 25,000 80,000 15,000 20,000 40,000 1,10,000 75,000
	13,85,000		13,85,000

SOLUTION

Long-term debt = 1,50,000 + 1,00,000 = 2,50,000Total debt = 2,50,000 + 45,000 + 55,000 + 1,00,000 + 60,000 = 5,10,000Shareholders' net worth² = 5,00,000 + 1,50,000 + 70,000 + 30,000 + 1,25,000-40,000 - 1,10,000 - 75000 = 6,50,000

1. Debt-equity Ratio = 2,50,000/6,50,000

Debt-equity ratio = 0.38:1

It shows that long-term debt is just 38% of the owner's equity indicating a low level of leverage and the firm can be considered as safe from the angle of long-term solvency.

It has been assumed that the intangible and fictitious assets have zero realizable value. If we consider that goodwill and Patents will have realizable value equal to the book value and preliminary expenses have no realizable value (as fictitious assets tree to the book value and preliminary expenses have no realizable value (as fictitious assets tree to the book value and preliminary expenses have no realizable value (as fictitious assets tree to the book value and preliminary expenses have no realizable value (as fictitious assets tree to the book value and preliminary expenses have no realizable value (as fictitious assets tree to the book value and preliminary expenses have no realizable value (as fictitious assets tree to the book value and preliminary expenses have no realizable value (as fictitious assets tree to the book value and preliminary expenses have no realizable value (as fictitious assets tree to the book value and preliminary expenses have no realizable value (as fictitious assets tree to the book value and preliminary expenses have no realizable value (as fictitious assets tree to the book value and preliminary expenses have no realizable value (as fictitious assets tree to the book value and preliminary expenses have no realizable value (as fictitious assets tree to the book value and preliminary expenses have no realizable value (as fictitious assets tree to the book value and preliminary expenses tree to the book value and preliminary expenses have no realizable value (as fictitious as the book value and preliminary expenses have no realizable value (as fictitious as the book value and preliminary expenses have no realizable value (as fictitious as the book value and preliminary expenses have no realizable value (as fictitious as the book value and preliminary expenses have no realizable value (as fictitious as the book value and preliminary expenses have no realizable value (as fictitious as the book value and preliminary expenses have no realizable value (as fictitious as the book value and preliminary expenses have no realizable value (as fictitious as fictitious as the book value and preliminary expenses assets usually do not have realizable value equal to the net worth will be equal to ₹ 8,35,000.

2. Solvency/Total indebtedness ratio = 5,10,000/6,50,000

Debt-Equity ratio = 0.78:1

Debt-Equity ratio = 0.78:1

It shows total indebtedness of business organization. It can be interpreted as total debt. It shows total indebtedness of business organization of the owner's equity indicating a low level long-term debt and current liabilities is just 78% of the owner's equity indicating a low level long-term debt and current liabilities is just 70% for the angle of long-term a_{SWell} a_{SWell} a_{SWell} short-term solvency.

3. Fixed Assets Ratio = 7,50,000/9,00,000

Net fixed assets = 5,30,000 + 1,10,000 + 20,000 + 90,000 = 7,50,000

Net capital employed = Shareholders' net worth + long-term debt

Net capital employed = 6,50,000 + 2,50,000 = 9,00,000

Fixed Assets Ratio = 0.83, i.e., 83%

It shall be interpreted as 83% of the net capital employed is being used to finance fixed assets This shows better and sound solvency position. It can be considered as a high level of coverage for the repayment of long-term liabilities.

4. Proprietary Ratio = 6,50,000/11,60,000

Total tangible assets = 13,85,000 - 40,000 - 1,10,000 - 75,000 = 11,60,000

Proprietary Ratio = 0.56, i.e., 56%

56% of the tangible assets have been financed through the shareholders funds and the remaining have been financed through borrowed funds—long-term debt and current liabilities.

5. Debt Ratio = 5,10,000/11,60,000

Debt Ratio = 0.44, i.e., 44%

44% of the tangible assets have been financed through borrowed funds—long-term debt and current liabilities.

ASSESSING OPERATING MANAGEMENT EFFICIENCY— SALES-BASED PROFITABILITY RATIO

Operating management is the managerial team that is concerned with the execution of policies resulting into the operating activities. The assessment of performance of operating level management can be done by analysing level of operating profit and operating expenses. To evaluate the performance of operating management, salesbased profitability ratios are used.

Sales-based profitability ratios are the one in which profit is reflected with reference to sales for the year.

Profitability ratios are calculated with reference to net sales as well as with reference to the invested capital.

Gross Profit Ratio

This ratio expresses relationship between gross profit and net sales. This ratio indicates the degree to which the selling price of goods per unit may decline with the selling price of goods per unit may decline without resulting in losses from operations to the firm. Gross Profit Ratio = (Gross Profit/Net Sales) \times 100

Operating Profit Ratio

The ratio denotes the margin of profit on sales revealing the operational efficiency of the unit. Operating Profit Ratio = (Operating profit/Net sales) \times 100