

SNS College of Technology Coimbatore - 35



23BAT611 – Financial Management

Unit - III COST OF CAPITAL & CAPITAL STRUCTURE



Presented by

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InstitutionDesign
ThinkingtoThinkingtoThinkingtoCurriculumRedesigning Common Mind and Business
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Discussed Problem 1 related to

Irredeemable Debt

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Problem: 2

Raja & Co Ltd issued Rs.2,00,000 9% debentures at a premium of 10%. The floatation costs (issue expenses) were 2%. The tax rate is 40%. Calculate before tax and after tax cost of debt.





- **Before Tax Cost of debt Kdb = Interest / Net Proceeds**
- **After Tax Cost of debt Kda = Interest Tax Saving / Net Proceeds**
- Interest p.a 9% 0n 2,00,000 = 18,000
- Less : Tax Saving at 40% on 18,000 = 7,200

Interest – Tax Saving = 10,800





Net Proceeds:

- Face Value of debentures= 2,00,000
- Add: Premium 10% = 20,000
 - 2,20,000

Issue Price

- Less : Floatation cost 2% = 4,400
 - Net proceeds2,15,600
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- **Before Tax Cost of debt Kdb = Interest / Net Proceeds**
- **Before Tax Cost of debt** Kdb = 18,000 / 2,15,600
- **Before Tax Cost of debt Kdb** = 8.35% or 0.0835
- **After Tax Cost of debt Kda = Interest Tax Saving / Net Proceeds**
- After Tax Cost of debt Kda = 18,000 7,200 / 2,15,600
- After Tax Cost of debt Kda = 10,800 / 2,15,600
- After Tax Cost of debt Kda = 5 % or 0.050



Problem : 3

Jayasurya Ltd issued Rs. 60,000 10% debentures at a discount of 5%. The floatation costs (issue expenses) were Rs. 2,000. Assuming tax rate is 40%. Calculate before tax and after tax cost of debt.





- **Before Tax Cost of debt Kdb = Interest / Net Proceeds**
- **After Tax Cost of debt Kda = Interest Tax Saving / Net Proceeds**
- Interest p.a 10% on 60,000 = 6,000
- Less : Tax Saving at 40% on 6,000 = 2,400

Interest – Tax Saving = 3,600





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Net Proceeds:

- Face Value of debentures = 60,000
- Less: Discount at 5% on 60,000 = 3,000
 - 57,000

2,000

Issue Price

- Less : issue expenses =
 - Net proceeds55,000
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- **Before Tax Cost of debt Kdb = Interest / Net Proceeds**
- **Before Tax Cost of debt Kdb** = 6,000 / 55,000
- **Before Tax Cost of debt Kdb = 10.91% or 0.1091**
- **After Tax Cost of debt Kda = Interest Tax Saving / Net Proceeds**
- After Tax Cost of debt Kda = 6,000 2,400 / 55,000
- After Tax Cost of debt Kda = 3,600 / 55,000
- **After Tax Cost of debt Kda** = 6.55 % or 0.0654









Cost of Irredeemable Debt

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