SHARE BUYBACK-VARIOUS CALCULATIONS

QUESTION NO.1A(Exam Question)(8 Marks) A Ltd. has a surplus cash of ₹ 90 lakhs and wants to use 30% of it for buyback shares. The Finance Manager of the Company estimates that its share price after repurchase is likely to be 10% above the buyback price; if the buyback route is taken. The number of shares outstanding at present is 10 lakhs and the current EPS is ₹ 3.Market capitalisation of the company is ₹ 200 lakhs after buyback.

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(a) The price at which the shares can be repurchased.

(b) The number of shares that can be re-purchased.

(c) The impact of share re-purchase on the EPS, assuming the net income is same.

Solution:

(a) Price At Which the Shares Can Be Repurchased :

Let P be the buyback price decided by A Ltd.

MPS After Buyback x No. of shares After Buyback = 200,00,000.

 \Rightarrow 1.1 x P x [Existing Number of Share - Buy Back Share] = 200,00,000

 $\Rightarrow 1.1 \text{ x P x } [10,00,000 - \frac{\text{Total Amount Available For Buyback}}{\text{Buyback Price}}] = 200,00,000.$

 $\Rightarrow 1.1 \times P \times [10,00,000 - \frac{30\% \text{ of } 90,00,000}{P}] = 200,00,000 \Rightarrow 1.1P [10,00,000 - \frac{27,00,000}{P}] = 200,00,000$

 \Rightarrow 11,00,000P - 2,970,000 = 200,00,000 \Rightarrow P = 20.88.

(b) Numbers of shares to be bought back :

Numbers of shares to be bought back = $\frac{27 \text{ Lakhs}}{20.88}$ = 1.29 Lakhs(approximately

(c) EPS After Buyback

New Equity Shares i.e. Equity Share After Buy back = (10 - 1.29) lakhs = 8.71 lakhs

 $EPS After Buyback = \frac{Total Earning After Buyback}{Total Number Of Equity Share After Buyback} = \frac{3 \times 10 Lakhs}{8.71 Lakhs} = \frac{30 Lakhs}{8.71 Lakhs} = Rs.3.44$

Aditional Analysis: Why total earnings after buyback is same. Since it is clearly given in question that net income or earning after buyback will assumed to be same.

QUESTION NO.2 (5 Marks) Eager Ltd. has a market capitalization of ₹1,500 crores and the current market price of its share is ₹ 1,500. It made a PAT of ₹ 200 crores and the Board is considering a proposal to buy back 20% of the shares at a premium of 10% to the current market price. It plans to fund this through a 16% bank loan. You are required to calculate the post buy back Earnings Per Share (EPS). The company's corporate tax rate is 30%. Solution:

| Existing No. of Equity Shares = ₹ 1500 crore / ₹1,500 = 1 Crore | | |
|---|----------------------------|------------------------|
| No. of shares to be bought back | = 1 Crore x 0.20 | = 20 Lakh |
| Price at which share to be bought back | = ₹ 1,500 + 10% of ₹ 1,500 | =₹1 <i>,</i> 650 |
| Amount required for Buyback of Shares | = ₹ 1,650 x 20 Lakh | =₹330 Crore |
| Amount of Loan @ 16% | = ₹ 330 Crore | |
| Statement showing Post Buyback EPS | | |
| Profit before tax (₹ 200 crore/ 0.70) | | ₹285.7143 crore |
| Less: Interest on Loan (₹ 330 Crore x 169 | %) | ₹ <u>52.8000 crore</u> |
| Profit before Tax | | ₹232.9143 crore |
| Whenever u feel down in life u lose all hones in life | | |

Just close ur eyes and say "I have to prove, not to the world, but to myself...!"

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Tax Profit after Tax (PAT) No. of Shares Post buyback EPS (Post Buyback) (₹ 163.0400 Crore/80.00 Lakh) ₹<u>69.8743 crore</u> ₹163.0400 crore 80 Lakh ₹203.80

EXTRA PRACTICAL QUESTION

QUESTION NO.7 SM Limited has a market capitalization of ₹ 3,000 crore and the current earnings per share (EPS) is ₹ 200 with a price earnings ratio (PER) of 15. The Board of directors is considering a proposal to buy back 20% of the shares at a premium which can be supported by the financials of the company. The Boards expects post buy back market price per share (MPS) of ₹ 3057. Post buy back PER will remain same. The company proposes to fund the buy back by availing 8% bank loan since available resources are committed for expansion plans. Applicable income tax rate is 30%. You are required to calculate:

(i)The interest amount which can be paid for availing the bank loan, (ii)The loan amount to be raised and (iii)The premium per share and percentage premium paid. over the current MPS. <u>Solution:</u>

Current Market Price of Share = ₹ 200 x 15 = ₹ 3,000 ; No. of shares = $\frac{\text{Market capitalisation}}{\text{Market price of share}} = \frac{3,000 \text{ crore}}{3,000} = 1 \text{ crore}$ No. of Shares proposed to Buyback = 20% of 1 core = 20 Lakh ; Post Buy back per share (₹) = ₹ 3,057 PE Ratio = 15Post Buy back EPS = $\frac{3057}{15}$ = ₹ 203.80 ; EAT = ₹ 203.80 x 80 Lakh = ₹ 16,304 Lakh Pre Tax Earning after Buyback = $\frac{16,304}{(1-0.30)}$ = ₹ 23,291.429 Lakh Earning Before Buyback = ₹ 200 x 100 = 20,000 Lakh Pre Tax Earning before Buyback = $\frac{20,000}{(1-0.30)}$ = ₹ 28571.429 Lakh **Particulars** Pre Tax Earning before Buyback ₹ 28571.429 Lakhs Pre Tax Earning after Buyback ₹23291.429 Lakhs Interest which can be paid for availing bank loan ₹ 5,280.00 Lakhs Loan Amount raised = $\frac{5280 \text{ lakhs}}{0.08}$ ₹66,000 Lakhs Amount paid for Buy back of Share ₹ 66,000 Lakhs No. of Shares Bought back 20 Lakhs ₹3,300 Share Buyback price per share = 66,000/20 Lakhs Current Market Price per share (₹ 200 × 15) ₹3,000 ₹300 Premium

% Premium over current market price = $\frac{300}{30000}$ x 100 = 10%

Whenever you get pains in your Life, just think about the full form of Pains. Positive attitude in negative situation. Follow it, life will change.