



ECONOMIC
VALUE ADDED



Economic Value Added

What is EVA?

GCPL is an Economic Value Added (EVA) company. EVA, developed by Stern, Stewart and Company is a measure of corporate value creation. This measure tells us whether the management of a company generates returns that cover the opportunity cost of scarce capital.

When does EVA improve?

EVA improves if:

- Operating profits grow without employing more capital, implying greater efficiencies
- Additional capital is invested in projects that return more than the cost of capital
- Capital is curtailed in activities that do not cover its costs – minimising or eliminating unproductive capital.

EVA is the excess of operating profits over the cost of capital employed. It is calculated as:

$$EVA = NOPAT - (WACC \times CE)$$

Where NOPAT = Net operating profit after taxes

WACC = Weighted average cost of capital

CE = Total capital employed

NOPAT is equal to Profit Before Tax (PBT) plus interest payments minus cash operating tax. Table 1 gives the detailed calculations of NOPAT for GCPL.

Table 1: Calculation of NOPAT (in Rs. crore)

	2007-08	2006-07
Profit before tax (PBT)	169.2	134.4
Interest (incl. forex fluctuation)	8.8	5.8
Profit on sale of Fixed Asset	–	0.1
Net operating Profit before tax	178.0	140.3
Cash operating tax on PBT	(19.3)	(15.8)
Cash operating tax on interest	(3.0)	(1.9)
Tax Adjustments	–	4.8
Net operating Profit after tax (NOPAT)	155.7	127.4

How is Cost of Capital calculated?

To calculate the WACC for a company, we need to calculate the cost of equity and the cost of debt. Market, as a whole, would demand an extra income to invest in risky, non-contractual residual claims to corporate cash flow. This is the market premium (p). Company specific risks over and above the market risk premium, measuring the volatility of the Company's stock relative to the market average, is captured by the leveraged beta (β), which is the ratio of the coefficient of variation of a company's stock prices compared to the market as a whole. The cost of equity, which is the risk free return (r) plus a company premium ($p \times \beta$) is weighted by the ratio of equity to market value (e) to get the weighted cost of equity.

Multiplying the pretax cost of borrowing (l) with the retention rate ($1 - \text{tax rate}$) gives tax-adjusted cost of debt. This is then weighted by the ratio of debt to market value (d) to arrive at the weighted cost of debt. By adding the weighted cost of equity and the weighted cost of debt,



we get WACC. Table 2 gives the calculation of WACC for GCPL. The WACC for 2007-08 was set at the beginning of the year.

Table 2: Calculation of WACC

	2007-08	2006-07
Leverage beta (β)	0.68	0.68
Market risk premium (P)	8%	8%
Equity risk premium ($P \times \beta$)	5.4%	5.4%
Risk free return (r)	7.57%	6.96%
Cost of equity $\{r + (P \times \beta)\}$	13.0%	12.4%
Equity/market value (e)	0.97	0.95
Wt. Cost of equity $\{[r + (P \times \beta)] \times e\}$	12.7%	11.8%
Pretax cost of borrowing (l)	8.6%	8%
Retention rate (1-tax rate)	5.7%	5.3%
Debt/market value (d)	0.03	0.05
Wt. Cost of debt $\{[(1-t)d]\}$	0.2%	0.3%
WACC	12.8% (13%)	12.1%(12%)

GCPL's average capital employed for 2007-08 is Rs. 178.46 crore (Rs. 139.04 crore for 2006-07). Given a WACC of 13% (12% for 2006-07) this translates into a capital charge of Rs. 23.2 crore (Rs.16.7 crore for 2006-07).

EVA generated by GCPL

Table 3 shows the EVA generated by GCPL.

$EVA = NOPAT - \{[l \times (1 - \text{tax rate}) \times d] + \{(r + p\beta) \times e\}\} \times \text{capital employed.}$

Table 3: EVA (in Rs. crore)

	2007-08	2006-07
NOPAT	155.7	127.4
Capital Charge	(23.2)	(16.7)
EVA	132.5	110.7

EVA of Godrej Netherlands B.V. (Consolidated) (in Rs. crore)

The EVA of Godrej Netherlands B.V. (Consolidated) for FY 2007-08 works out as follows:

	2007-08	2006-07
NOPAT	11.9	16.6
Capital Charge - ('@11%)	(11.8)	(13.4)
EVA	0.1	3.2

EVA of Rapidol Pty. Ltd. (in Rs. crore)

The EVA of Rapidol for FY 2007-08 works out as follows:

	2007-08	2006-07
NOPAT	8.5	3.0
Capital Charge - ('@11%)	(6.4)	(3.6)
EVA	2.1	(0.6)

* Figures for 2006-07 is for 7 months (Sep'06 to Mar'07)

EVA of Godrej Global Mid East FZE (GGME) (in Rs. crore)

The EVA of GGME for 6 months ended March 2008, works out as follows:

	2007-08
NOPAT	0.2
Capital Charge - ('@11%)	(0.1)
EVA	0.1