

Financial Ratios – Insurance Sector

[In supersession of "Financial Ratios – Insurance Sector" issued in June 2017]

Background

Financial ratios are used to make a holistic assessment of financial performance of the entity. They also help evaluating the entity's performance vis-à-vis its peers within the industry. Financial ratios are not an 'end' by themselves but a 'means' to understanding the fundamentals of an entity. CARE follows a standard set of ratios for evaluating Insurance companies. These can be divided into three categories:

- Earnings
- Liquidity
- Solvency

These are given in detail below:

A. Earnings Ratios

Profitable operations are necessary for insurance companies to operate as a going concern. CARE's measurement of earnings focuses on an insurers' ability to efficiently translate its strategies and competitive strengths into growth opportunities and sustainable profit margins. CARE analyses the profitability of the underwriting and investment functions separately:

Ratio	Formula	Significance in Analysis
Premium Growth	<u>GPW_T - GPW_{T-1}</u> * 100	Indicates growth in business undertaken
	GPW _{T-1}	by the insurance entity.
	GPW: Gross Premium Written T: Current year T-1: Previous year	
Risk Retention	Net Premium Written _T	Indicates the level of risks retained by the insurer vis-à-vis that ceded to reinsurers.
	Gross Premium Written _T	Reinsurance plays an essential role in the risk spreading process.
Loss Ratio	Net Claims Incurred _T * 100 Net Premium Earned _T * 100	The ratio measures the company's loss experience as a proportion of premium income earned during the year. The loss ratio is a reflection on the nature of risk underwritten and the adequacy or inadequacy of pricing of risks.

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Ratio	Formula	Significance in Analysis
	Management Expense _T	Expense ratio reflects the efficiency of
Expense Ratio	+/(-) Net Commission * 100	insurance operations. Expense ratio for an
	Paid/(Earned) _T	insurer is analyzed by class of business,
	Net Premium Earned _T	along with the trend of the same.
		Combined ratio is a measure of
Combined Ratio	Loss Ratio + Expense Ratio	underwriting profitability of an insurance
		company after factoring claims expenses
		and operating expenses of the insurer.
		This ratio measures the average return on
		the company's invested assets before and
Investment Yield	Total Investment Income _T	after capital gains and losses. While
	Average Total Investments _(T, T-1)	calculating the investment yield including
		capital gains, both realized as well as
		unrealized capital gains are considered.
		This ratio measures the overall
Net Earnings	Profit After Tax _T	profitability of an insurer after factoring
Ratio	Net Premium Written _T	underwriting result, operating expenses
		as well as investment income and tax.
		This ratio reflects the post-tax return
Return on	Profit After Tax _T	generated on networth of an insurer. It's
Networth	Average Networth _(T, T-1)	a measure of overall return on the equity
		deployed in the business.

B. Liquidity Ratios

Good liquidity helps an insurance company to meet policyholder's obligations promptly. An insurer's liquidity depends upon the degree to which it can satisfy its financial obligations by holding cash and investments that are sound, diversified and liquid or through operating cash flows. A high degree of liquidity enables an insurer to meet the unexpected cash requirements without untimely sale of investments, which may result in substantial realized losses due to temporary market conditions and/or tax consequences.

The liquidity ratios considered by CARE are:

Ratio	Formula	Significance in Analysis
Liquid Assets to Technical Reserves	Liquid Assets⊤ Technical Reserves⊤	Technical reserves are reserves created to take care of 'expected' claims that may arise. While an insurer may not be expected to maintain liquid assets equal to technical reserves, a higher proportion of liquid assets would help the insurer in taking care of these 'expected' claims.



Ratio	Formula	Significance in Analysis
Liquid Assets to Current Liabilities	Liquid Assets _⊤ Current Liabilities _⊤	 This ratio indicates an insurer's ability to settle its current liabilities without prematurely selling long term investments or to borrow money. If this ratio is less than one, then the insurer's liquidity becomes sensitive to the cash flow from premium collections

C. Solvency Parameters

Adequacy of solvency margin forms the basic foundation for meeting policyholder obligations. All insurance companies are required to comply with solvency margin requirements of the regulator as prescribed from time to time. Currently, IRDA has prescribed 1.5 times 'Solvency Margin' for insurance companies in India. 'Solvency Margin' for insurance companies is akin to 'Capital Adequacy Ratio' of Banks.

Ratio	Formula	Significance in Analysis
Solvency Ratio	Available Solvency Margin Required Solvency Margin	Compliance with minimum requirement of 1.5 times as well as cushion available above the regulatory minimum is examined.
	(As reported to IRDA)	
Operating Leverage	<u>Net Premium Written</u> Networth _T	This ratio indicates current as well as potential underwriting capacity of an insurer.

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