



BOND RATES OF INDIAN GOVT SECURITIES

AS ON 29TH MAY 2020

In Actuarial calculations, the **discount rate** is the factor used to restate the value of liabilities at a future date to today's value.

In other words, how much money would be need to set aside now, given a particular liability value at a future point.

One of the key actuarial assumptions, which has a material effect on the benefit obligations, is the discount rate. The discount rate reflects the time value of money but not the actuarial or investment risk. Specifically, the discount rate does not reflect the entity-specific credit risk borne by the entity's creditors, nor does it reflect the risk that future experience may differ from actuarial assumptions.

The discount rate plays a key role in assessing whether the pension plan has enough assets to meet its future pension obligations. The discount rate should be determined by reference to market yields at the end of the reporting period. The discount rate reflects what the plan's assets can reasonably be expected to earn over the long term. From this are subtracted the cost of running the pension plan and provisions for major adverse events.

The discount rate reflects the estimated timings of benefits payments. This can be achieved by applying a single weighted average discount rate that reflects the estimated timing and amount of benefits payment and the currency in which benefits are to be paid.

IND AS 19 – DISCOUNT RATE

As per the **IND AS 19 Guidelines** issued by the **Ministry of Corporate Affairs**, to decide upon the rate of discounting for the post employment benefit obligations, it is suggested to use the **yields on long term Indian Government bonds**.

It is suggested in practice to follow discount rates based on assumptions, such as weighted average yields, instead of considering the actual durations matching G-Sec.

GOVERNMENT OF INDIA BOND RATES – AS ON 29TH MAY 2020

The yield rates below are comprised of Indian government bills and bonds. The rates given below are based on the benchmark FIMMDA (Fixed Income Markets and Derivatives Association of India) indices. FIMMDA is the nodal agency designated by RBI to set financial benchmarks, and the benchmarks are published by Financial Benchmark India Pvt. Ltd (FBIL), authorised by RBI for benchmark administration activities relating to the valuation of Government of India Securities

	Year	Tenor	Yield
G-Sec		3M	3.319 %
G-Sec		6M	3.488 %
G-Sec	2021	1Y	3.766 %
G-Sec	2022	2Y	4.182 %
G-Sec	2023	3Y	4.720 %
G-Sec	2024	4Y	5.195 %
G-Sec	2025	5Y	5.533 %
G-Sec	2026	6Y	5.810 %
G-Sec	2027	7Y	6.045 %
G-Sec	2028	8Y	6.239 %
G-Sec	2029	9Y	6.196 %
G-Sec	2030	10Y	6.818 %
G-Sec	2031	11Y	5.873 %
G-Sec	2032	12Y	6.516 %
G-Sec	2033	13Y	6.413 %
G-Sec	2034	14Y	6.294 %
G-Sec	2035	15Y	6.445 %
G-Sec	2039	19Y	6.567 %
G-Sec	2044	24Y	6.650 %
G-Sec	2050	30Y	6.705 %

G-Sec – Government of India dated Securities.

Yield indicates annualised yield as on 29th May 2020.

Sources:

<https://fbil.org.in/download.aspx?m=gsec&f=29052020.xls>

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NOTES ON BOND RATES

1. Discount rate used in Actuarial Valuation is determined by reference to market yields at the end of the reporting period on government – as Per **Para 83 of IND AS 19**. Impact of change in assumption is recognised in Profit & Loss in case of AS 15 valuations, whereas in Ind AS 19 valuations it is recognised through OCI (post-employment obligations) and P&L will not be affected.

G-Sec Yield Comparison: 29th May 2020 and 31st March 2020

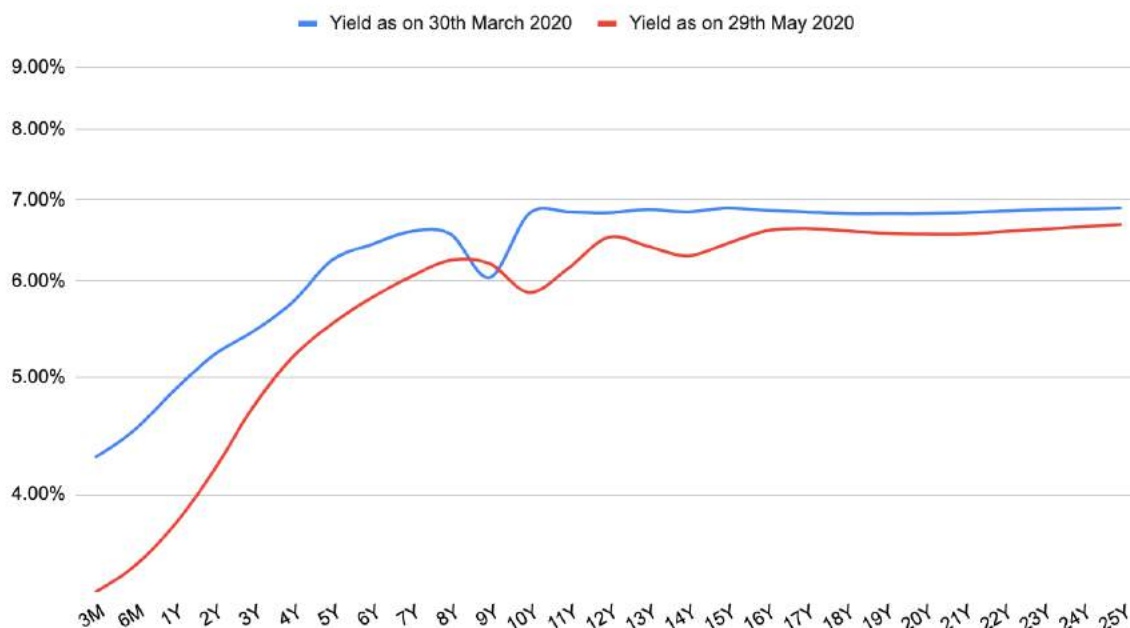


Figure 1: Government of India G-Sec Yield Comparison

2. Comparing **10 Year G-Sec yields** on 31st March 2020 and 29th May 2020, we can see that the yield has reduced by almost 100 basis points. This follows a series of rate cuts by the Reserve Bank of India in response to the outbreak of COVID19 in India.
3. Comparing **Short term (< 5 years) G-Sec yields** on 31st March 2020 and 29th May 2020, we can see that there is a significant reduction in the bond yields as on 29th May 2020.
4. Comparing **Long term G-Sec yields (15 years and above)** on 31st March 2020 and 29th May 2020, we can see that the yield has reduced by about 21 bps.
5. The decrease in G – Sec yields as on 29th May 2020 from the yields as on 31st March 2020 will result in increase in the actuarial liability.
6. Decrease in G – Sec yields will result in Actuarial Losses in Defined Benefits Obligations due to discount rate impact. Offsetting this impact by changing other actuarial assumptions like salary growth rate should be done cautiously by considering relevant factors, and after discussion with actuary and auditor.

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