A Division of S&P Global

SPIVA® India Scorecard

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Experience the active vs. passive debate on a global scale.

Summary

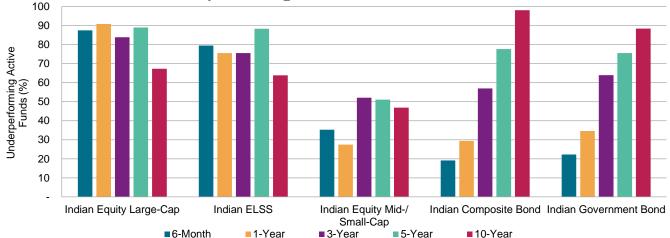
Since the first publication of the S&P Indices Versus Active Funds (SPIVA) U.S. Scorecard in 2002, S&P Dow Jones Indices has been the de facto scorekeeper of the ongoing active versus passive debate.

The SPIVA India Scorecard compares the performance of actively managed Indian equity and bond mutual funds with their respective benchmark indices YTD and over 1-, 3-, 5- and 10-year investment horizons.

Mid-Year 2022 Highlights

In the first half of 2022, performance among Indian active managers was greatly mixed across categories. There was an unusually high underperformance rate in Indian Equity Large-Cap funds, where 88% of actively managed funds underperformed the <u>S&P BSE 100</u>, and an unusually low proportion—just 19%—of Indian Composite Bond funds underperformed the <u>S&P BSE India Bond Index</u>.





Source: S&P Dow Jones Indices LLC, Morningstar and Association of Mutual Funds in India. Data as of June 30, 2022. Outperformance is based on equal-weighted fund counts. Index performance based on total return in INR. Past performance is no guarantee of future results. Chart is provided for illustrative purposes.

Indian Equity Large-Cap Funds

 The S&P BSE 100 lost 8.4% over the first half of 2022, and 87.5% of active managers underperformed the benchmark over that period.

- Underperformance rates for other periods were not far off from the H1 2022 numbers, with the 1-, 3- and 5-year periods at 90.9%, 83.9% and 89.1%, respectively.
- Over the 10-year period, however, the active manager record is significantly better, with the underperformance rate dropping to 67.4%.

Indian ELSS Funds

- The <u>S&P BSE 200</u> fell by 8.9% in H1 2022, and 79.5% of Indian ELSS funds underperformed the index. Their long-term record was materially better, with just 63.9% of funds underperforming over a 10-year period.
- Indian ELSS funds boasted the highest long-term survival rates across all categories in our SPIVA India Scorecard, with 77.8% of them still surviving after 10 years.

Indian Equity Mid-/Small-Cap Funds

- The benchmark for Indian Equity Mid-/Small-Cap funds, the <u>S&P BSE 400 MidSmallCap</u> Index, plunged 13.7% in the first six months of 2022, and just 35.3% of active managers underperformed the index over that period.
- Among all the categories included in the SPIVA India Scorecard, Indian Equity Mid-/Small-Cap Funds fared the best by far in the long run, with a slim majority of them managing to beat the S&P BSE 400 MidSmallCap Index over the 10-year period ending in June 2022.

Indian Government Bond Funds

- The <u>S&P BSE India Government Bond Index</u> dropped 1.5% over the six months ending in June 2022. The vast majority of active managers beat the benchmark in H1 2022, with an underperformance rate of just 22.2%.
- Fewer funds were able to maintain their record of outperformance over the 10-year period, however, with 88.5% of the funds underperforming their benchmark.

Indian Composite Bond Funds

 In the six-month period ending in June 2022, the S&P BSE India Bond Index closed just in the red, with a loss of 1.2%. The H1 2022 underperformance of active managers was the lowest across all categories in the SPIVA India Scorecard, at just 19.2%.

 Over the 10-year period, however, the category displayed the highest underperformance rate across categories, with 98.1% of managers failing to beat their benchmark.

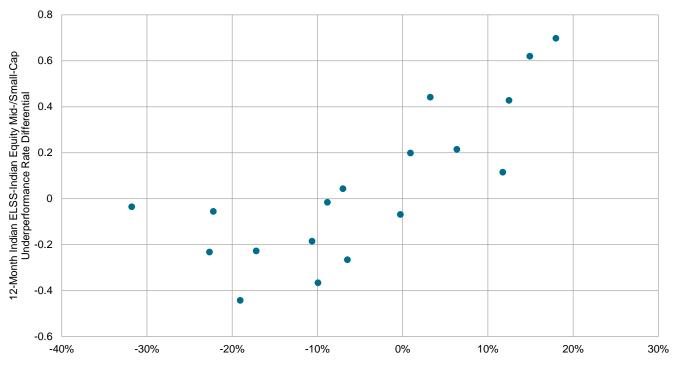
Market Context

After holding up well in Q1 2022, Indian equities plunged in Q2. Smaller companies bore the brunt of the sell-off: the S&P BSE 400 MidSmallCap Index dropped 13.7% in H1 2022, while the S&P BSE 200 and the S&P BSE 100 managed to limit their losses to 8.9% and 8.4%, respectively.

Although the mid-cap benchmark had its worst first half since 2013, active managers in the category had a great start to the year, with an underperformance rate of just 35.3%. Sharp contrast was offered in the Indian Equity Large-Cap and Indian ELSS categories, with active manager underperformance rates of 87.5% and 79.5%, respectively.

Indian ELSS and Indian Equity Mid/Small-Cap managers nibbling in each others' investment universes may have been among the reasons for the large difference in their respective underperformance rates. Indeed, Indian ELSS managers venturing down the capitalization range and Indian Equity Mid-/Small-Cap funds including a few larger names in their portfolios might be a systemic characteristic for the two categories, at least based on historical patterns of relative returns and outperformance rates. As Exhibit 2 highlights, since the inception of the SPIVA India Scorecard in 2013, there has been a strongly positive relationship between the 12-month relative returns of the S&P BSE 200 and the S&P BSE 400 MidSmallCap Index (which is positive when larger companies outperform smaller companies), and the difference between the underperformance rates of Indian ELSS and Indian Equity Mid-/Small-Cap managers (which is positive when large-cap active managers did relatively better than small-cap active managers).

Exhibit 2: Historical 12-Month S&P BSE 200-S&P BSE 400 MidSmallCap Index Performance Differentials and Indian ELSS-Indian Equity Mid-/Small-Cap Underperformance Rate Differentials

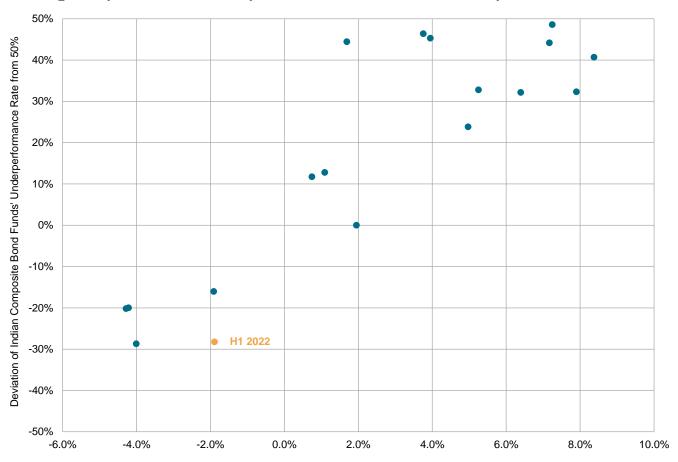


12-Month S&P BSE 200-S&P BSE 400 MidSmallCap Index Performance Differential

Source: S&P Dow Jones Indices LLC. Data as of June 30, 2022. The correlation between the two series of the exhibit is equal to 0.78. The S&P BSE 400 MidSmallCap Index was launched Nov. 30, 2017. All data prior to index launch date is back-tested hypothetical data. Past performance is no guarantee of future results. Chart is provided for illustrative purposes and reflects hypothetical historical performance. Please see the Performance Disclosure at the end of this document for more information regarding the inherent limitations associated with back-tested performance.

A popular stereotype—and, perhaps, one not totally without merit—is that portfolio managers with a streak for higher risk tolerance tend to end up managing equity funds, while their more risk-averse colleagues often end up looking after bond portfolios. Offering support for the theory, Indian Composite Bond portfolio managers as a group may have adopted a cautious stance not only this year but also over the long run, regardless of the market environment. This year, and over the past 12 months, the funds they run appear to have benefited from a defensive approach to duration and credit risk. However, in historical periods during which longer-dated and lower-credit bonds outperformed, actively managed Indian Composite Bond funds tended to underperform. As Exhibit 3 demonstrates, the 12-month underperformance rate in the category tended to be higher when the return of the S&P India Bond Index exceeded the average Indian clearing corporation overnight repo rate (a proxy for near-riskless cash positions) and vice versa; fewer funds underperformed when a defensive approach would have been rewarded.

Exhibit 3: Historical 12-Month Differential between S&P India Bond Index and Average Overnight Repo Rate and Underperformance Rate of Indian Composite Bond Funds



12-Month Differential between S&P India Bond Index and Average Overnight Repo Rate

Source: S&P Dow Jones Indices LLC, Morningstar. Data as of June 30, 2022. The correlation between the two series of the exhibit is equal to 0.88. Past performance is no guarantee of future results. Chart is provided for illustrative purposes.

A Unique Scorecard for the Active versus Passive Debate

Since its first publication 20 years ago, the SPIVA Scorecard has served as the de facto scorekeeper of the active versus passive debate. For two decades, we have heard passionate arguments from believers in both camps when headline numbers have deviated from their beliefs.

Beyond the SPIVA Scorecard's widely cited headline numbers is a rich data set that addresses issues related to measurement techniques, universe composition and fund survivorship that are far less frequently discussed but are often much more fascinating. These data sets are rooted in the following fundamental principles of the SPIVA Scorecard, with which regular readers will be familiar.

- Survivorship Bias Correction: Many funds might be liquidated or merged during a period of study. However, for someone making an investment decision at the beginning of the period, these funds are part of the opportunity set. Unlike other commonly available comparison reports, SPIVA Scorecards account for the entire opportunity set—not just the survivors—thereby eliminating survivorship bias.
- Apples-to-Apples Comparison: Fund returns are often compared with a popular benchmark regardless of their investment category. The SPIVA India Scorecard makes an appropriate comparison by measuring a fund's returns against the returns of a benchmark that reflects the fund's investment category.
- Asset-Weighted Returns: Asset-weighted returns for a particular style category are determined by calculating a weighted average return of all funds in that category in a particular month, with each fund's return weighted by its latest quarterly average assets available as of that month from the Association of Mutual Funds in India. Asset-weighted returns are a better indicator of fund category performance because they more accurately reflect the returns of the total money invested in that particular style category.
- Data Cleaning: SPIVA Scorecards avoid double-counting multiple share classes in all count-based calculations by using only the share class with greater assets. Index, leveraged and inverse funds, along with other index-linked products, are excluded because this is meant to be a scorecard for active managers.

Reports

Report 1a: Percentage of Funds Outperformed by the Index (Based on Absolute Return)

Fund Category	Comparison Index	YTD (%)	1-Year (%)	3-Year (%)	5-Year (%)	10-Year (%)
Indian Equity Large-Cap	S&P BSE 100	87.50	90.91	83.87	89.06	67.36
Indian ELSS	S&P BSE 200	79.49	75.61	75.61	88.37	63.89
Indian Equity Mid-/Small- Cap	S&P BSE 400 MidSmallCap Index	35.29	27.45	52.08	51.11	46.88
Indian Composite Bond	S&P BSE India Bond Index	19.15	29.37	56.94	77.70	98.10
Indian Government Bond	S&P BSE India Government Bond Index	22.22	34.62	64.00	75.61	88.46

Source: S&P Dow Jones Indices LLC, Morningstar and Association of Mutual Funds in India. Data as of June 30, 2022. Returns are shown in INR. The S&P BSE 400 MidSmallCap Index was launched Nov. 30, 2017. The S&P BSE India Government Bond Index and the S&P BSE India Bond Index were launched Dec. 31, 2013. All data prior to index launch date is back-tested hypothetical data. Past performance is no guarantee of future results. Table is provided for illustrative purposes and reflects hypothetical historical performance. Please see the Performance Disclosure at the end of this document for more information regarding the inherent limitations associated with back-tested performance.

Report 1b: Percentage of Funds Outperformed by the Index (Based on Risk-Adjusted Return)

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Fund Category	Comparison Index	YTD (%)	1-Year (%)	3-Year (%)	5-Year (%)	10-Year (%)
Indian Equity Large-Cap	S&P BSE 100	-	90.91	74.19	81.25	65.28
Indian ELSS	S&P BSE 200	-	75.61	73.17	90.70	66.67
Indian Equity Mid-/Small- Cap	S&P BSE 400 MidSmallCap Index	-	-	41.67	40.00	35.94
Indian Composite Bond	S&P BSE India Bond Index	-	26.57	53.47	64.03	70.48
Indian Government Bond	S&P BSE India Government Bond Index	-	23.08	84.00	92.68	94.23

Source: S&P Dow Jones Indices LLC, Morningstar and Association of Mutual Funds in India. Data as of June 30, 2022. Returns are shown in INR. The S&P BSE 400 MidSmallCap Index was launched Nov. 30, 2017. The S&P BSE India Government Bond Index and the S&P BSE India Bond Index were launched Dec. 31, 2013. All data prior to index launch date is back-tested hypothetical data. Past performance is no guarantee of future results. Table is provided for illustrative purposes and reflects hypothetical historical performance. Please see the Performance Disclosure at the end of this document for more information regarding the inherent limitations associated with back-tested performance. Results shown for all time horizons over which the comparison index total return was positive.

Report 2: Survivorship of Funds

Fund Category	Number of Funds at Start	Survivorship (%)
YTD		
Indian Composite Bond	141	98.58
Indian ELSS	39	97.44
Indian Equity Large-Cap	32	96.88
Indian Equity Mid-/Small-Cap	51	98.04
Indian Government Bond	27	100.00
1-Year		
Indian Composite Bond	143	97.20
Indian ELSS	41	92.68
Indian Equity Large-Cap	33	93.94
Indian Equity Mid-/Small-Cap	51	94.12
Indian Government Bond	26	100.00
3-Year		
Indian Composite Bond	144	90.28
Indian ELSS	41	87.80
Indian Equity Large-Cap	31	93.55
Indian Equity Mid/Small Cap	48	91.67
Indian Government Bond	25	96.00
5-Year		
Indian Composite Bond	139	83.45
Indian ELSS	43	81.40
Indian Equity Large-Cap	64	90.63
Indian Equity Mid-/Small-Cap	45	93.33
Indian Government Bond	41	63.41
10-Year		
Indian Composite Bond	105	74.29
Indian ELSS	36	77.78
Indian Equity Large-Cap	144	69.44
Indian Equity Mid-/Small-Cap	64	76.56
Indian Government Bond	52	40.38

Source: S&P Dow Jones Indices LLC, Morningstar and Association of Mutual Funds in India. Data as of June 30, 2022. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Report 3: Average Fund Performance (Equal-Weighted)

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Index/Fund Category	YTD (%)	1-Year (%)	3-Year (%)	5-Year (%)	10-Year (%)
S&P BSE 100	-8.42	1.40	11.84	11.65	13.28
Indian Equity Large-Cap	-10.91	-1.17	9.98	9.34	12.67
S&P BSE 200	-8.90	1.19	12.87	11.84	13.82
Indian ELSS	-11.35	-1.02	11.86	9.66	14.39
S&P BSE 400 MidSmallCap Index	-13.70	-2.05	18.25	10.36	15.39
Indian Equity Mid-/Small-Cap	-12.44	1.62	19.90	12.18	18.20
S&P BSE India Bond Index	-1.18	1.62	6.24	6.70	8.31
Indian Composite Bond	0.97	3.99	4.45	4.16	6.08
S&P BSE India Government Bond Index	-1.53	1.20	5.94	6.57	8.24
Indian Government Bond	-1.25	0.97	5.00	5.16	6.79

Source: S&P Dow Jones Indices LLC, Morningstar and Association of Mutual Funds in India. Data as of June 30, 2022. Returns are shown in INR. The S&P BSE 400 MidSmallCap Index was launched Nov. 30, 2017. The S&P BSE India Government Bond Index and the S&P BSE India Bond Index were launched Dec. 31, 2013. All data prior to index launch date is back-tested hypothetical data. Past performance is no guarantee of future results. Table is provided for illustrative purposes and reflects hypothetical historical performance. Please see the Performance Disclosure at the end of this document for more information regarding the inherent limitations associated with back-tested performance.

Report 4: Average Fund Performance (Asset-Weighted)

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Index/Fund Category	YTD (%)	1-Year (%)	3-Year (%)	5-Year (%)	10-Year (%)
S&P BSE 100	-8.42	1.40	11.84	11.65	13.28
Indian Equity Large-Cap	-9.82	0.17	9.89	9.33	12.81
S&P BSE 200	-8.90	1.19	12.87	11.84	13.82
Indian ELSS	-12.63	-2.95	9.82	8.23	13.32
S&P BSE 400 MidSmallCap Index	-13.70	-2.05	18.25	10.36	15.39
Indian Equity Mid-/Small-Cap	-11.37	1.86	17.06	10.56	17.02
S&P BSE India Bond Index	-1.18	1.62	6.24	6.70	8.31
Indian Composite Bond	0.42	2.84	5.87	5.81	7.36
S&P BSE India Government Bond Index	-1.53	1.20	5.94	6.57	8.24
Indian Government Bond	-0.95	1.55	6.17	6.21	7.99

Source: S&P Dow Jones Indices LLC, Morningstar and Association of Mutual Funds in India. Data as of June 30, 2022. Returns are shown in INR. The S&P BSE 400 MidSmallCap Index was launched Nov. 30, 2017. The S&P BSE India Government Bond Index and the S&P BSE India Bond Index were launched Dec. 31, 2013. All data prior to index launch date is back-tested hypothetical data. Past performance is no guarantee of future results. Table is provided for illustrative purposes and reflects hypothetical historical performance. Please see the Performance Disclosure at the end of this document for more information regarding the inherent limitations associated with back-tested performance.

Report 5: Quartile Breakpoints of Fund Performance

Fund Category	Third Quartile	Second Quartile	First Quartile
YTD			
Indian Equity Large-Cap	-12.69	-10.78	-9.80
Indian ELSS	-12.81	-11.00	-9.02
Indian Equity Mid-/Small-Cap	-14.75	-12.34	-10.24
Indian Composite Bond	-0.71	0.22	0.72
Indian Government Bond	-1.30	-1.03	-0.44
1-Year			
Indian Equity Large-Cap	-3.26	-1.11	0.31
Indian ELSS	-2.69	-0.88	1.47
Indian Equity Mid-/Small-Cap	-2.00	1.11	5.21
Indian Composite Bond	1.39	2.50	3.25
Indian Government Bond	0.82	1.36	1.81
3-Year			
Indian Equity Large-Cap	8.79	10.08	11.07
Indian ELSS	9.09	10.18	13.04
Indian Equity Mid-/Small-Cap	15.11	18.75	23.71
Indian Composite Bond	5.15	6.15	6.90
Indian Government Bond	4.70	5.64	6.53
5-Year			
Indian Equity Large-Cap	8.41	9.43	10.82
Indian ELSS	7.34	9.02	11.05
Indian Equity Mid-/Small-Cap	7.91	10.59	12.31
Indian Composite Bond	4.86	5.90	6.74
Indian Government Bond	4.89	5.99	6.92
10-Year			
Indian Equity Large-Cap	11.94	13.16	14.23
Indian ELSS	12.64	13.63	14.93
Indian Equity Mid-/Small-Cap	14.93	16.79	18.13
Indian Composite Bond	6.41	7.14	7.62
Indian Government Bond	6.97	7.40	8.30

Source: S&P Dow Jones Indices LLC, Morningstar and Association of Mutual Funds in India. Data as of June 30, 2022. Returns shown are annualized for periods greater than one year. Index performance based on total return in local country currency. Past performance is no guarantee of future results. Table is provided for illustrative purposes.

Appendix A: Glossary

Data

Data from Morningstar is obtained for all managed funds domiciled in India for which monthend data are available during the performance period. The data include the most comprehensive Indian fund data on active and finalized (merged or liquidated) funds over the chosen period. Quarterly average assets for all managed funds are sourced from the Association of Mutual Funds in India for every quarter-end during the performance period.

SPIVA Styles and Morningstar Fund Classifications

Funds are classified based on the Morningstar fund classification system, and the SPIVA India Scorecard covers Indian Equity Large-Cap, Indian ELSS, Indian Equity Mid-/Small-Cap, Indian Government Bond, and Indian Composite Bond categories. The Morningstar classification system produces narrow, style-based classifications for Indian funds. S&P Dow Jones Indices has consolidated the style-based categories in order to generate a larger sample size and develop a broad-market comparison to market-based benchmarks. A narrow, style-based comparison would yield a limited sample size, given that value and growth style segments are not consistently discernible over the previous five-year period. Morningstar categories have been mapped to SPIVA peer groups in the following manner.

Exhibit 4a: Indian Funds – SPIVA and Current Morningstar Categories

SPIVA Category	Morningstar Category	
Indian Equity Large-Cap	India Fund Large-Cap	
Indian ELSS	India Fund ELSS (Tax Savings)	
Indian Fault, Mid /Small Con	India Fund Mid-Cap	
Indian Equity Mid-/Small-Cap	India Fund Small-Cap	
Indian Covernment Band	India Fund Government Bond	
Indian Government Bond	India Fund 10-Year Government Bond	
	India Fund Short Duration	
	India Fund Medium Duration	
	India Fund Medium to Long Duration	
Indian Composite Band	India Fund Long Duration	
Indian Composite Bond	India Fund Dynamic Bond	
	India Fund Banking & PSU	
	India Fund Corporate Bond	
	India Fund Credit Risk	

Source: S&P Dow Jones Indices LLC, Morningstar. Table is provided for illustrative purposes.

Exhibit 4b: Indian Funds - SPIVA and Historical Morningstar Categories

Morningstar Category		
rge Cap		
rge Cap		
rge-Cap		
.SS (Tax Saving)		
nall/Mid Cap		
nall/Mid Cap		
nall/Mid-Cap		
Small/Mid-Cap		
ng Government		
ng-Term Government Bond		
ermediate Government Bond		
ermediate Government		
ort Government		
India OE Short-Term Government Bond		
ong-Term Government Bond		
ntermediate Government Bond		
Short-Term Government Bond		
ermediate Bond		
ort-term Bond		
ng-Term Bond		
ked Maturity Multisector Bond		
ked Maturity Short-term Bond		
MP Multisector Bond		
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orporate Credit		
ong-Term Bond		
ntermediate Bond		
Short-Term Bond		
Corporate Credit		
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Source: S&P Dow Jones Indices LLC, Morningstar. Table is provided for illustrative purposes.

Benchmarks

The chosen benchmarks are shown in Exhibit 5. All index returns are total returns (i.e., include dividend reinvestment) in Indian rupees. There has been no deduction from index returns to account for fund investment expenses. It is important to note that active fund returns are after expenses, but they do not include loads and entry fees. To ensure the study is robust and fair, representative benchmarks were selected for each fund category, but not all funds adopt the benchmarks stipulated. However, a vast majority do set their performance hurdle based on either the assigned benchmarks in this report, or a similar alternative.

Exhibit 5: SPIVA Categories and Their Benchmarks

SPIVA Category	Benchmark Index
Indian Equity Large-Cap	S&P BSE 100
Indian ELSS	S&P BSE 200
Indian Equity Mid-/Small-Cap ¹	S&P BSE 400 MidSmallCap Index
Indian Government Bond	S&P BSE India Government Bond Index
Indian Composite Bond	S&P BSE India Bond Index

Source: S&P Dow Jones Indices LLC, Morningstar. Table is provided for illustrative purposes.

SPIVA 13

The benchmark for the SPIVA category India Equity Mid-/Small-Cap in SPIVA India scorecards prior to the SPIVA India Mid-Year 2018 scorecard was the S&P BSE MidCap.

Appendix B: Glossary – Reports

Percentage of Funds Outperformed by the Index

We use funds with returns available for the entire period as the denominator. We determine the count of funds that have survived and beat the index and then report the index outperformance percentage.

Survivorship (%)

The survivorship metric represents the percentage of funds in existence at the beginning of the time period that are still active at the end of the time period.

Equal-Weighted Fund Performance

Equal-weighted returns for a particular style category are determined by calculating a simple average return of all active funds in that category in a particular month.

Asset-Weighted Fund Performance

Asset-weighted returns for a particular style category are determined by calculating a weighted average return of all funds in that category in a particular month, with each fund's return weighted by its total net assets. Asset-weighted returns are a better indicator of fund category performance because they reflect the returns of the total money invested in that particular style category with more accuracy.

Quartile Breakpoints

The pth percentile for a set of data is the value that is greater than or equal to p% of the data but is less than or equal to (100-p)% of the data. In other words, it is a value that divides the data into two parts: the lower p% of the values and the upper (100-p)% of the values. The first quartile border is the 75th percentile, which is the value separating the elements of a population into the lower 75% and the upper 25%. The second quartile border is the 50th percentile, and the third quartile border is the 25th percentile. For fund category quartiles in a particular time period, the data used are the return of the largest share class of the fund net of fees, excluding loads.

Survivorship Bias

Some funds liquidate or merge during a period of study. This usually occurs due to continued poor performance by the fund. Therefore, if index returns were compared to fund returns using only surviving funds, the comparison would be biased in favor of the fund category. The

SPIVA reports remove this bias in three ways. The first method to remove the bias is to use the entire investment opportunity set, made up of all funds in that particular category at the outset of the period, as the denominator for outperformance calculations. The second is to show explicitly the survivorship rate in each category. The final way is to construct a peer average return series for each category based on all available funds at the outset of the period.

Fees

The fund returns used are net of fees, excluding loads.

Indices

A benchmark index provides an investment reference against which fund performance can be measured.

S&P BSE 100

The S&P BSE 100 is designed to measure the performance of the top 100 companies in India based on size and liquidity. It is a highly liquid and investable index that is designed to address investment managers' needs to benchmark against a large-cap equity portfolio.

S&P BSE 200

The S&P BSE 200 is designed to represent the top 200 large, liquid, well-established, and financially sound companies listed at BSE Ltd. across sectors.

S&P BSE 400 MidSmallCap Index

The S&P BSE 400 MidSmallCap Index is designed to track the performance of the 400 companies within the S&P BSE 500 that are not part of S&P BSE 100.

S&P BSE India Bond Index

The S&P BSE India Bond Index is designed to track the performance of local-currencydenominated government and corporate bonds from India.

S&P BSE India Government Bond Index

The S&P BSE India Government Bond Index is designed to track the performance of local-currency-denominated government bonds from India.

About Asia Index Private Limited

Asia Index Pvt. Ltd is a 50-50 partnership between S&P Dow Jones Indices LLC, the world's largest provider of financial market indices, and BSE Ltd, Asia's oldest stock exchange and home to the iconic SENSEX index -a leading indicator of Indian equity market performance. Asia Index Pvt. Ltd, which combines the benchmarks, market intelligence, and insights of both parent companies, each established more than 115 years ago, aims to provide a full array of indices enabling global and domestic investors to participate in South Asia's vibrant economies. The Company is best known for calculating, publishing, and maintaining a diverse family of Asian indices under the umbrella brand, S&P BSE Indices. To learn more about our company, please visit www.asiaindex.co.in.

SPIVA 16

Performance Disclosure/Back-Tested Data

The S&P BSE 400 MidSmallCap Index was launched November 30, 2017. The S&P BSE India Government Bond Index and the S&P BSE India Bond Index were launched December 31, 2013. All information presented prior to an index's Launch Date is hypothetical (back-tested), not actual performance, and is based on the index methodology in effect on the index launch date. However, when creating back-tested history for periods of market anomalies or other periods that do not reflect the general current market environment, index methodology rules may be relaxed to capture a large enough universe of securities to simulate the target market the index is designed to measure or strategy the index is designed to capture. For example, market capitalization and liquidity thresholds may be reduced. In addition, forks have not been factored into the back-test data with respect to the S&P Cryptocurrency Indices. For the S&P Cryptocurrency Top 5 & 10 Equal Weight Indices, the custody element of the methodology was not considered; the back-test history is based on the index constituents that meet the custody element as of the Launch Date. Complete index methodology details are available at www.spglobal.com/spdij. Back-tested performance reflects application of an index methodology and selection of index constituents with the benefit of hindsight and knowledge of factors that may have positively affected its performance, cannot account for all financial risk that may affect results and may be considered to reflect survivor/look ahead bias. Actual returns may differ significantly from, and be lower than, back-tested returns. Past performance is not an indication or quarantee of future results.

Please refer to the methodology for the Index for more details about the index, including the manner in which it is rebalanced, the timing of such rebalancing, criteria for additions and deletions, as well as all index calculations. Back-tested performance is for use with institutions only; not for use with retail investors.

S&P Dow Jones Indices defines various dates to assist our clients in providing transparency. The First Value Date is the first day for which there is a calculated value (either live or back-tested) for a given index. The Base Date is the date at which the index is set to a fixed value for calculation purposes. The Launch Date designates the date when the values of an index are first considered live: index values provided for any date or time period prior to the index's Launch Date are considered back-tested. S&P Dow Jones Indices defines the Launch Date as the date by which the values of an index are known to have been released to the public, for example via the company's public website or its data feed to external parties. For Dow Jones-branded indices introduced prior to May 31, 2013, the Launch Date (which prior to May 31, 2013, was termed "Date of introduction") is set at a date upon which no further changes were permitted to be made to the index methodology, but that may have been prior to the Index's public release date.

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