Ramkrishna Forgings Limited			Rama	krishna	Forging.	s Ltd				
Years	Mar-14	Mar-15	Mar-16	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23
# Income Statement Sales Sales Growth	₹ 433.99	₹ 753.84 73.70%	₹ 907.85 20.43%	₹ 920.73 1.42%	₹1,490.90 61.93%	₹ 1,931.08 29.52%	₹ 1,216.47 -37.01%	₹1,288.93 5.96%	₹ 2,320.25 80.01%	₹ 3,192.90 37.61%
COGS COGS% Sales	₹ 355.20 81.85%	₹574.13 76.16%	₹ 662.65 72.99%	₹ 683.70 74.26%	₹1,102.28 73.93%	₹1,447.41 74.95%	₹ 909.78 74.79%	₹ 955.44 74.13%	₹1,662.33 71.64%	₹ 2,243.11 70.25%
Gross Profit Gross Margins	₹ 78.79 18.15%	₹179.71 23.84%	₹ 245.20 27.01%	₹ 237.03 25.74%	₹ 388.62 26.07%	₹ 483.67 25.05%	₹ 306.69 25.21%	₹ 333.49 25.87%	₹ 657.92 28.36%	₹ 949.79 29.75%
Selling & General Expenses S&G Exp% Sales	₹ 18.85 4.34%	₹ 49.06 6.51%	₹ 64.07 7.06%	₹ 74.09 8.05%	₹ 99.69 6.69%	₹ 97.85 5.07%	₹ 97.96 8.05%	₹ 109.21 8.47%	₹ 139.65 6.02%	₹ 255.92 8.02%
EBITDA EBITDA Margins	₹ 59.94 13.81%	₹ 130.65 17.33%	₹ 181.13 19.95%	₹ 162.94 17.70%	₹ 288.93 19.38%	₹ 385.82 19.98%	₹ 208.73 17.16%	₹ 224.28 17.40%	₹518.27 22.34%	₹ 693.87 21.73%
Interest % Sales	₹ 23.23 5.35%	₹ 32.09 4.26%	₹ 55.17 6.08%	₹ 78.13 8.49%	₹73.37 4.92%	₹ 84.00 4.35%	₹ 79.80 6.56%	₹ 80.64 6.26%	₹ 97.18 4.19%	₹121.75 3.81%
<b>Depreciation</b> Depreciation % Sales	₹ 25.07 5.78%	₹ 31.64 4.20%	₹ 53.32 5.87%	₹ 75.02 8.15%	₹ 84.65 5.68%	₹ 121.06 6.27%	₹120.54 9.91%	₹ 116.70 9.05%	₹ 169.35 7.30%	₹ 201.64 6.32%
Earnings Before Tax EBT % Sales	₹ 11.64 2.68%	₹ 66.92 8.88%	₹ 72.64 8.00%	₹ 9.79 1.06%	₹ 130.91 8.78%	₹ 180.76 9.36%	₹ 8.39 0.69%	₹ 26.94 2.09%	₹ 251.74 10.85%	₹ 370.48 11.60%
Tax Effective Tax Rate	₹ 4.48 38.49%	₹ 3.89 5.81%	₹ 20.42 28.11%	₹ 5.63 57.51%	₹ 40.13 30.65%	₹ 63.62 35.20%	₹ 5.10 60.79%	₹ 11.07 41.09%	₹ 55.17 21.92%	₹ 126.33 34.10%
<b>Net Profit</b> Net Margins	₹ 7.16 1.65%	₹ 63.03 8.36%	₹ 52.22 5.75%	₹ 4.16 0.45%	₹ 90.78 6.09%	₹ 117.14 6.07%	₹ 3.29 0.27%	₹ 15.87 1.23%	₹ 196.57 8.47%	₹ 244.15 7.65%
No of Equity Shares	13.05	13.73	14.33	14.33	16.3	16.33	16.33	15.99	16.02	15.99
Earnings Per Share EPS Growth %	₹ 0.55	₹ 4.59 736.71%	₹ 3.64 -20.62%	₹ 0.29 -92.03%	₹5.57 1818.47%	₹ 7.17 28.80%	₹ 0.20 -97.19%	₹ 0.99 392.63%	₹ 12.27 1136.31%	₹15.27 24.44%
<b>Dividend per Share</b> Dividend Payout Ratio	₹ 2.61 4.757053073	₹ 5.49 1.195901951	₹ 5.73 1.572403294	₹ 2.87 9.886322115	₹3.26 0.585349196	₹4.89 0.681694554	0	0	₹ 27.18 2.215107087	₹31.98 2.094450952
Retained Earnings	0.00%	0.00%	0.00%	0.00%	41.47%	31.83%	100.00%	100.00%	0.00%	0.00%
Balance Sheet Equity Share Capital	₹26.10	₹ 27.47	₹ 28.67	₹ 28.67	₹32.59	₹ 32.61	₹32.61	₹ 31.93	₹ 31.98	₹ 31.98
Reserves Borrowings	₹ 289.08 ₹ 511.44	₹ 377.05 ₹ 734.70	₹ 441.70 ₹ 881.97	₹ 439.99 ₹ 956.71	₹ 725.99 ₹ 845.04	₹ 839.85 ₹ 911.68	₹ 843.39 ₹ 992.99	₹ 850.65 ₹ 1,232.78	₹ 1,046.41 ₹ 1,618.26	₹ 1,289.79 ₹ 1,333.40
Other Liabilities  Total	₹ 203.91 ₹ 1,030.53	₹ 303.16 ₹ 1,442.38	₹ 332.43 ₹ 1,684.77	₹ 432.56 ₹ 1,857.93	₹ 452.15 ₹ 2,055.77	₹ 416.60 ₹ 2,200.74	₹ 360.72 ₹ 2,229.71	₹ 587.26 ₹ 2,702.62	₹ 784.60 ₹ 3,481.25	₹ 1,075.57 ₹ 3,730.74
Fixed Assets Net Block	₹ 242.47	₹532.31	₹947.46	₹ 1,024.37	₹ 1,075.62	₹ 1,113.91	₹1,174.53	₹ 1,240.36	₹ 1,473.21	₹ 1,692.76
Capital Work in Progress	₹347.04	₹ 315.68	₹35.06 ₹0.11	₹ 50.42 ₹ 0.11	₹43.56 ₹0.11	₹ 129.59 ₹ 0.11	₹ 219.03	₹ 275.63 ₹ 0.11	₹ 129.47	₹ 90.67 ₹ 0.11
Investments Other Assets	₹ 132.93	₹ 0.11 ₹ 118.73	₹ 141.61	₹ 108.73	₹ 121.23	₹112.48	₹ 0.11 ₹ 130.12	₹ 106.21	₹ 55.11 ₹ 184.79	₹ 216.79
Total Non Current Assets	₹722.55	₹ 966.83	₹ 1,124.24	₹ 1,183.63	₹ 1,240.52	₹ 1,356.09	₹ 1,523.79	₹ 1,622.31	₹ 1,842.58	₹ 2,000.33
Receivables Inventory	₹ 135.58 ₹ 157.13	₹ 298.72 ₹ 175.61	₹ 338.30 ₹ 220.05	₹ 443.79 ₹ 228.56	₹ 514.66 ₹ 299.39	₹ 509.59 ₹ 331.90	₹ 342.69 ₹ 359.94	₹ 572.90 ₹ 438.95	₹ 890.61 ₹ 709.64	₹ 775.22 ₹ 907.89
Cash & Bank Total Current Assets	₹ 15.27 ₹ 307.98	₹ 1.22 ₹ 475.55	₹ 2.18 ₹ 560.53	₹ 1.95 ₹ 674.30	₹ 1.20 ₹ 815.25	₹ 3.16 ₹ 844.65	₹ 3.29 ₹ 705.92	₹ 68.46 ₹ 1,080.31	₹ 38.42 ₹ 1,638.67	₹ 47.30 ₹ 1,730.41
Total Assets	₹1,030.53	₹ 1,442.38	₹ 1,684.77	₹ 1,857.93	₹ 2,055.77	₹ 2,200.74	₹ 2,229.71	₹ 2,702.62	₹ 3,481.25	₹3,730.74
Check	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
Cash Flow Statement Operating Activities										
Profit from operations Receivables	₹ 57.00 ₹ (53.00)	₹ 136.00 ₹ (153.00)	₹ 184.00 ₹ (37.00)	₹ 161.00 ₹ (58.00)	₹ 291.00 ₹ (71.00)	₹ 368.00 ₹ (13.00)	₹ 196.00 ₹ 175.00	₹ 221.00 ₹ (252.00)	₹ 500.00 ₹ (314.00)	₹ 654.00 ₹ 147.00
Inventory	₹ (8.00)	₹ (18.00) ₹ 42.00	₹ (44.00) ₹ 20.00	₹ (78.00) ₹ 125.00	₹ (71.00) ₹ 4.00	₹ (27.00) ₹ (35.00)	₹ (27.00) ₹ (61.00)	₹ (73.00) ₹ 238.00	₹ (271.00) ₹ 180.00	₹ (198.00) ₹ 185.00
Payables Other WC items	₹ (29.00) ₹ (1.00)	₹ 24.00 ₹ 30.00	₹ (6.00) ₹ 3.00	₹ (2.00)	₹ (2.00)	₹ 2.00 ₹ 16.00	₹ (8.00)	₹ 5.00 ₹ 1.00	₹ (2.00) ₹ (3.00)	₹1.00 ₹24.00
Working capital changes Direct taxes Cash From Operating Activities	₹ (34.00) ₹ (11.00)	₹ (76.00) ₹ (15.00)	₹ (65.00) ₹ 55.00	₹ (13.00) ₹ 135.00	₹ (139.00) ₹ 12.00	₹ (57.00) ₹ 254.00	₹ 65.00 ₹ 326.00	₹ (80.00) ₹ 60.00	₹ (409.00) ₹ (319.00)	₹ 159.00 ₹ 972.00
Investing Activities Fixed assets purchased Fixed assets sold	₹ (291.00) ₹ 1.00	₹ (299.00) ₹ 9.00	₹ (171.00)	₹ (109.00)	₹ (113.00) ₹ 1.00	₹ (255.00)	₹ (228.00)	₹ (231.00) ₹ 1.00	₹ (300.00)	₹ (357.00) ₹ 2.00
Investments purchased Investments sold Interest received	₹ 3.00	₹ 3.00	- - ₹ 2.00	- - ₹2.00	- - ₹2.00	₹1.00	- - ₹ 2.00	- - ₹2.00	₹ (55.00) - ₹ 1.00	₹ 55.00 ₹ 1.00
Dividends received Invest in subsidiaries	-	-	-	-	-		-	-	-	-
Loans to subsidaries Acquisition of companies Other investing items	₹ (1.00) - ₹ 1.00	₹ 2.00 - ₹ 14.00	- - -	₹ (1.00)	₹1.00	₹ (1.00)	₹ (6.00)	₹ 6.00	₹ (1.00)	₹ (1.00)
Cash from Investing Activities Financing Activities	₹ (287.00)	₹ (271.00)	₹ (169.00)	₹ (108.00)	₹ (109.00)	₹ (255.00)	₹ (232.00)	₹ (222.00)	₹ (355.00)	₹ (300.00)
Proceeds from borrowings Repayment of borrowings	₹ 287.00 ₹ (31.00)	₹ 286.00 ₹ (40.00)	₹ 151.00 ₹ (32.00)	₹ 162.00 ₹ (115.00)	₹37.00 ₹(175.00)	₹ 270.00 ₹ (196.00)	₹ 160.00 ₹ (97.00)	₹ 343.00 ₹ (102.00)	₹ 648.00 ₹ (266.00)	₹ 234.00 ₹ (547.00)
Interest paid fin Dividends paid	₹ (34.00) ₹ (3.00)	₹ (48.00) ₹ (3.00)	₹ (58.00) ₹ (7.00)	₹ (77.00) ₹ (6.00)	₹ (73.00) ₹ (3.00)	₹ (81.00) ₹ (3.00)	₹ (76.00) ₹ (5.00)	₹ (78.00)	₹ (98.00) ₹ (5.00)	₹ (114.00) ₹ (27.00)
Financial liabilities Other financing items	₹1.00	₹6.00	-	₹ (1.00)	₹ (1.00)	₹ (3.00)	₹ (4.00)	₹ (15.00)	₹ (1.00)	₹ (7.00) ₹ 24.00
Cash From Financing Activities	₹ 220.00	₹ 201.00	₹ 54.00	₹ (37.00)	₹ (215.00)	₹ (13.00)	₹ (22.00)	₹ 148.00	₹ 278.00	₹ (437.00)
Net Cash Flow	₹11.00	₹ (14.00)	₹1.00	₹ (1.00)	-	₹1.00	₹1.00	₹ 65.00	₹ (31.00)	₹8.00



				Rati	io Analysi:	s						
Years	Mar-15	Mar-16	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Trend	Mean	Medium
Sales Growth	73.70%	20.43%	1.42%	61.93%	29.52%	-37.01%	5.96%	80.01%	37.61%	<b>~~~</b>	30.40%	29.52%
EBITDA Growth	25.49%	15.12%	-11.30%	9.51%	3.10%	-14.12%	1.41%	28.37%	-2.71%	~~	6.10%	3.10%
EBIT Growth	230.98%	-9.87%	-86.71%	725.80%	6.61%	-92.63%	203.05%	419.10%	6.95%	$\sim$	155.92%	6.95%
Net Profit Growth	780.31%	-17.15%	-92.03%	2082.21%	29.04%	-97.19%	382.37%	1138.63%	24.21%	$\sim$	470.04%	29.04%
Dividend Growth	110.34%	4.37%	-49.91%	13.59%	50.00%	-100.00%	0.00%	0.00%	17.66%		5.12%	4.37%
Gross Margin	73.70%	20.43%	1.42%	61.93%	29.52%	-37.01%	5.96%	80.01%	37.61%	<b>~~~</b>	30.40%	29.52%
EBITDA Margin	17.33%	19.95%	17.70%	19.38%	19.98%	17.16%	17.40%	22.34%	21.73%	~~~	19.22%	19.38%
EBIT Margin	13.13%	14.08%	9.55%	13.70%	13.71%	7.25%	8.35%	15.04%	15.42%	~~	12.25%	13.70%
EBT Margin	8.88%	8.00%	1.06%	8.78%	9.36%	0.69%	2.09%	10.85%	11.60%	~~~	6.81%	8.78%
Net Profit Margin	8.36%	5.75%	0.45%	6.09%	6.07%	0.27%	1.23%	8.47%	7.65%	<b>\</b>	4.93%	6.07%
SalesExpenses%Sales	76.16%	72.99%	74.26%	73.93%	74.95%	74.79%	74.13%	71.64%	70.25%	<u></u>	73.68%	74.13%
Depreciation%sales	4.20%	5.87%	8.15%	5.68%	6.27%	9.91%	9.05%	7.30%	6.32%	~~	6.97%	6.32%
OperatingIncome%Sales	17.33%	19.95%	17.70%	19.38%	19.98%	17.16%	17.40%	22.34%	21.73%	~~~	19.22%	19.38%
Return on capital Employ	8.69%	9.45%	6.17%	12.74%	14.84%	4.72%	5.09%	12.94%	18.54%	~~	10.35%	9.45%
Retained Earnings%	0.00%	0.00%	0.00%	41.47%	31.83%	100.00%	100.00%	0.00%	0.00%		30.37%	0.00%
Return on Equity%	15.58%	11.10%	0.89%	11.97%	13.43%	0.38%	1.80%	18.23%	18.47%	~~~	10.20%	11.97%
Self sustained Growth Rate	0.00%	0.00%	0.00%	5.28%	4.72%	4.72%	5.09%	0.00%	0.00%		2.20%	0.00%
Interest coverage Ratio	3.09x	2.32x	1.13x	2.78x	3.15x	1.11x	1.33x	3.59x	4.04x	~~~	2.50x	2.78x
Debtor Turnover Ratio	2.52x	2.68x	2.07x	2.90x	3.79x	3.55x	2.25x	2.61x	4.12x	~~	2.94x	2.68x
Credit Turnover Ratio	2.49x	2.73x	2.13x	3.30x	4.64x	3.37x	2.19x	2.96x	2.97x	~~	2.97x	2.96x
Inventory Turnover	4.29x	4.13x	4.03x	4.98x	5.82x	3.38x	2.94x	3.27x	3.52x		4.04x	4.03x
Fixed Asset Turnover	1.42x	0.96x	0.90x	1.39x	1.73x	1.04x	1.04x	1.57x	1.89x	<b>✓</b>	1.33x	1.39x
Capital Turnover Ratio	1.86x	1.93x	1.96x	1.97x	2.21x	1.39x	1.46x	2.15x	2.42x		1.93x	1.96x
Debtor Days	0	0	0	0	0	0	0	0	0		0	0
Payable Days	145	136	176	126	96	103	162	140	89	~~	130	136
Inventory Days	147	134	171	111	79	108	166	123	123	~~~	129	123
Cash Conversion cycle	145	136	176	126	96	103	162	140	89	~~	130	136
CFO/Sales	18.04%	20.27%	17.49%	19.52%	19.06%	16.11%	17.15%	21.55%	20.48%	~~~	18.85%	19.06%
CFO/Total Assets	9.43%	10.92%	8.67%	14.16%	16.72%	8.79%	8.18%	14.36%	17.53%	~	12.08%	10.92%
CFO/Total Debt	18.51%	20.86%	16.83%	34.44%	40.37%	19.74%	17.93%	30.90%	49.05%		27.62%	20.86%



### Forecasting

	Sales Foreca	sting			EBITDA For	ecasting			EPS Foreca	sting	
Year Weight	Year	Sales	<b>Sales Growth</b>	Year Weight	Year	EBITDA	<b>EBITDA Growth</b>	Year Weight	Year	EPS	<b>EPSGrowth</b>
1	2014A	433.99		1	2014A	59.94		1	2014A	0.55	
2	2015A	753.84	73.70%	2	2015A	130.65	117.97%	2	2015A	4.59	736.71%
3	2016A	907.85	20.43%	3	2016A	181.13	38.64%	3	2016A	3.64	-20.62%
4	2017A	920.73	1.42%	4	2017A	162.94	-10.04%	4	2017A	0.29	-92.03%
5	2018A	1490.90	61.93%	5	2018A	288.93	77.32%	5	2018A	5.57	1818.47%
6	2019A	1931.08	29.52%	6	2019A	385.82	33.53%	6	2019A	7.17	28.80%
7	2020A	1216.47	-37.01%	7	2020A	208.73	-45.90%	7	2020A	0.20	-97.19%
8	2021A	1288.93	5.96%	8	2021A	224.28	7.45%	8	2021A	0.99	392.63%
9	2022A	2320.25	80.01%	9	2022A	518.27	131.08%	9	2022A	12.27	1136.31%
10	2023A	3192.90	37.61%	10	2023A	693.87	33.88%	10	2023A	15.27	24.44%
11	2024E	2746.62	-13.98%	11	2024E	581.08	-16.26%	11	2024E	10.87	-28.84%
12	2025E	2983.16	8.61%	12	2025E	634.83	9.25%	12	2025E	11.92	9.72%
13	2026E	3219.69	7.93%	13	2026E	688.58	8.47%	13	2026E	12.98	8.86%
14	2027E	3456.22	7.35%	14	2027E	742.33	7.81%	14	2027E	14.04	8.14%
15	2028E	3692.75	6.84%	15	2028E	796.08	7.24%	15	2028E	15.09	7.53%



#### **Common Size Statement**

Particulars	Mar-14	Mar-15	Mar-16	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23
Sales	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Raw Material Cost	50.02%	48.21%	46.36%	45.82%	49.08%	48.84%	45.72%	49.76%	53.13%	50.83%
Change in Inventory	-2.45%	-1.96%	3.40%	5.86%	1.20%	0.86%	4.18%	0.39%	8.65%	5.28%
Power and Fuel	9.95%	7.42%	7.80%	9.41%	8.16%	7.38%	8.00%	7.26%	6.57%	5.89%
Other Mfr. Exp	9.95%	10.62%	12.52%	15.57%	11.55%	14.14%	16.76%	9.98%	15.08%	13.85%
Employee Cost	9.47%	7.94%	9.72%	9.32%	6.34%	5.45%	8.50%	7.51%	5.52%	4.97%
Selling and admin	7.27%	9.14%	9.46%	6.74%	5.35%	3.90%	5.72%	5.89%	5.08%	6.56%
Other Expenses	-2.92%	-2.63%	-2.40%	1.30%	1.34%	1.16%	2.34%	2.58%	0.94%	1.46%
Other Income	0.30%	1.64%	0.26%	0.77%	0.28%	0.15%	0.53%	0.37%	0.06%	0.12%
Depreciation	5.78%	4.20%	5.87%	8.15%	5.68%	6.27%	9.91%	9.05%	7.30%	6.32%
Interest	5.35%	4.26%	6.08%	8.49%	4.92%	4.35%	6.56%	6.26%	4.19%	3.81%
Profit before tax	2.98%	10.52%	8.26%	1.83%	9.06%	9.51%	1.22%	2.46%	10.91%	11.73%
Tax	1.03%	0.52%	2.25%	0.61%	2.69%	3.29%	0.42%	0.86%	2.38%	3.96%
Net profit	1.95%	10.00%	6.01%	1.22%	6.37%	6.22%	0.80%	1.60%	8.53%	7.77%
Dividend Amount	0.60%	0.73%	0.63%	0.31%	0.22%	0.25%	0.00%	0.00%	1.17%	1.00%
				Common Size	Balance Sheet					
Particulars	Mar-14	Mar-15	Mar-16	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23
Total Liabilities	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Equity Share Capital	2.53%	1.90%	1.70%	1.54%	1.59%	1.48%	1.46%	1.18%	0.92%	0.86%
Reserves	28.05%	26.14%	26.22%	23.68%	35.31%	38.16%	37.83%	31.48%	30.06%	34.57%
Borrowings	49.63%	50.94%	52.35%	51.49%	41.11%	41.43%	44.53%	45.61%	46.49%	35.74%
Other Liabilities	19.79%	21.02%	19.73%	23.28%	21.99%	18.93%	16.18%	21.73%	22.54%	28.83%
Total Assets	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Net Block	23.53%	36.90%	56.24%	55.14%	52.32%	50.62%	52.68%	45.89%	42.32%	45.37%
Capital Work in Progress	143.13%	59.30%	3.70%	4.92%	4.05%	11.63%	18.65%	22.22%	8.79%	5.36%
Investments	0.03%	0.03%	0.31%	0.22%	0.25%	0.08%	0.05%	0.04%	42.57%	0.12%
Receivables	13.16%	20.71%	20.08%	23.89%	25.03%	23.16%	15.37%	21.20%	25.58%	20.78%
Inventory	15.25%	12.18%	13.06%	12.30%	14.56%	15.08%	16.14%	16.24%	20.38%	24.34%
Cash & Bank	1.48%	0.08%	0.13%	0.10%	0.06%	0.14%	0.15%	2.53%	1.10%	1.27%
Other Assets	12.90%	8.23%	8.41%	5.85%	5.90%	5.11%	5.84%	3.93%	5.31%	5.81%



Beta Regression

The Closing Price   Weekly Returns   Closing Price   Close   Clos		Ramakrishna Fo	orgings Limited Ret	turns		Nifty I	Returns
## ## ## ## ## ## ## ## ## ## ## ## ##							
### ### ### ### ### ### ### ### ### ##	ite	4/0/2010	Closing Price	weekiy кeturns			
### ### ### ### ### ### ### ### ### ##				0.75%			
\$\( \text{\$N} \) \text{\$N} \text{\$N} \) \text{\$N} \text{\$N} \) \text{\$N} \\ \text{\$N} \) \text{\$N} \\ \$							
\$16,000   \$49.94   3.79%							
\$\( \text{\$\frac{5}{143009}} \tag{\text{\$\frac{9}{143}} \tag{\text{\$\frac{9}{143}} \tag{\text{\$\frac{9}{143}}} \tag{\text{\$\frac{9}{143}} \tag{\text{\$\frac{1}{143}} \tag{\text{\$\frac{9}{143}}} \tag{\text{\$\frac{1}{143}} \tag{\text{\$\frac{1}{143}} \tag{\text{\$\frac{9}{143}}} \tag{\text{\$\frac{1}{143}} \tag{\text{\$\frac{1}{143}} \tag{\text{\$\frac{1}{143}} \tag{\text{\$\frac{1}{143}} \tag{\text{\$\frac{1}{143}} \tag{\text{\$\frac{9}{143}}} \tag{\text{\$\frac{9}{143}}} \tag{\text{\$\frac{9}{143}} \tag{\text{\$\frac{9}{143}} \tag{\text{\$\frac{9}{143}}} \tag{\text{\$\frac{9}{143}} \tag{\text{\$\frac{9}{143}}} \tag{\text{\$\frac{9}{143}} \text{\$							-3.709
5/20/2019   \$97.97   7.27%		5/13/2019	₹91.33	-3.80%			
6/1/2019		5/20/2019			₹1	1,844.10	3.839
6/10/2019			₹ 100.61				
6,17/2019   \$18.199   \$1.100   \$0.956   \$7/1/2019   \$9.5.51   \$8.246   \$1.1,181.15   \$0.199   \$7/1/2019   \$9.5.51   \$8.246   \$1.1,181.15   \$0.199   \$7/1/2019   \$9.5.81   \$4.658   \$11.1,192.55   \$1							
\$\text{\$P_1/2019}  \qua							
7/1/2019							
7/8/2019							
7/15/2019							
7/22/2019							
8/F/2019							
8/17/2019							
8/19/2019		8/5/2019	₹88.88	-2.48%			
8/26/2019		8/12/2019	₹80.61	-9.30%	₹1	1,047.80	-0.569
19/1/2019   \$58.21   4.12%   \$1.0945.20   0.70%   9/1/2019   \$55.62   6.11%   \$1.1274.20   1.79%   9/1/2019   \$55.62   6.11%   \$1.1274.20   1.79%   9/1/2019   \$55.63   6.46%   \$1.1174.75   2.293   10/7/2019   \$55.29   5.46%   \$1.1174.75   2.293   10/7/2019   \$55.29   2.47%   \$1.1805.05   1.77%   10/1/2019   \$52.91   2.47%   \$1.1805.05   1.77%   10/1/2019   \$52.91   2.47%   \$1.1805.05   1.77%   11/1/2019   \$52.91   2.47%   \$1.1805.06   2.65%   11/1/2019   \$55.67   5.15%   \$1.19%   11/1/2019   \$56.67   -1.72%   \$1.1895.45   0.119   11/1/2019   \$56.67   -1.72%   \$1.1895.45   0.119   11/1/2019   \$56.67   -1.72%   \$1.1895.45   0.119   11/1/2019   \$56.67   -1.72%   \$1.1895.45   0.119   11/1/2019   \$56.67   -1.72%   \$1.1895.45   0.119   11/1/2019   \$56.66   0.95%   \$1.1066.05   1.199   11/1/2019   \$66.99   0.95%   \$1.1066.05   1.199   11/1/2019   \$66.99   0.95%   \$1.1206.05   1.199   11/1/2019   \$66.99   0.95%   \$1.1206.05   1.199   11/1/2019   \$66.99   0.95%   \$1.1206.05   1.299   11/1/2019   \$66.99   0.95%   \$1.1206.05   1.299   11/1/2019   \$66.99   0.95%   \$1.1206.05   1.299   11/1/2019   \$66.91   0.153   0.153   0.123							
9/16/2019							
9/15/2019							
9/32/2019							
9/30/2019							
10/17/2019							
10/14/2019			₹54.25		*1	1.305.05	1.179
10/21/2019							
10/28/2019			₹54.71	3.40%	₹1	1,583.90	-0.679
11/11/2019		10/28/2019	₹ 58.58		₹1	1,890.60	2.659
11/18/2019							
11/27/2019							
12/12/2019							
12/p2/2019							
12/16/2019							
12/12/2019							
12/30/2019							
1/6/2020							
1/27/2020				-10.06%	₹1	2,256.80	0.259
1/27/2020				17.45%			
2/19/2000 \$72.95 8.66% \$1.2098.35 1.149 2/19/2000 \$65.99 1.07.8% \$1.2113.45 0.122 2/19/2000 \$67.94 4.34% \$1.2080.85 0.279 3/19/2000 \$54.36 6.18% \$1.1098.35 1.209 3/19/2000 \$45.36 6.18% \$1.0989.35 1.209 3/19/2000 \$44.69 2.3.30% \$9.95.20 9.341 3/19/2000 \$43.07 1.67.9% \$8,745.35 1.219 3/19/2000 \$43.07 1.67.9% \$8,745.35 1.219 3/19/2000 \$43.07 1.67.9% \$8,745.35 1.219 3/19/2000 \$43.07 1.67.9% \$8,745.35 1.219 3/19/2000 \$43.07 1.67.9% \$8,745.35 1.219 3/19/2000 \$43.07 1.67.9% \$9.95.20 9.341 4/19/2000 \$43.77 2.66.5% \$9.111.09 4/19/2000 \$43.78 1.16.5% \$9.95.20 9.241 4/19/2000 \$43.78 1.16.5% \$9.95.20 9.241 4/19/2000 \$43.89 1.217% \$9.251.00 6.179 5/19/2000 \$43.99 1.209 5/19/2000 \$43.99 1.209 5/19/2000 \$43.99 1.209 6/19/2000 \$43.95 1.319% \$9.09.215 1.209 6/19/2000 \$43.95 1.319% \$1.009.200 6/19/2000 \$43.95 1.319% \$1.009.200 6/19/2000 \$43.95 1.319% \$1.009.200 6/19/2000 \$43.95 1.319% \$1.009.200 6/19/2000 \$43.95 1.319% \$1.009.200 6/19/2000 \$43.95 1.319% \$1.009.200 6/19/2000 \$43.95 1.319% \$1.009.200 6/19/2000 \$43.95 1.319% \$1.009.200 6/19/2000 \$43.95 1.309.2000 6/19/2000 \$43.95 1.309.2000 6/19/2000 \$43.95							
2/10/2000							
2/11/2020 \$ 67.94							
2/24/2020 \$ 57.34							
3/1/2020							
3/h/2020							
3/16/2020							
3/23/2020							
4/6/2020 \$4.07 26.65% \$9.111.90 12.729 4/13/2020 \$4.275 22.93% \$0.26.6575 1.070 4/20/2020 \$3.78 .11.63% \$9.15.4.00 1.1219 5/4/2020 \$3.6.69 2.08% \$9.89.90 7.719 5/4/2020 \$3.2.69 1.12.77% \$9.255.1.00 5/4/2020 \$3.2.69 1.12.77% \$9.255.1.00 5/14/2020 \$3.2.69 1.12.77% \$9.255.1.00 5/14/2020 \$3.3.30 1.76% \$9.93.25 1.079 5/5/2020 \$3.0.0 9.26% \$9.59.00 5.599 6/1/2020 \$3.719 22.74% \$1.01.42.1.5 5.869 6/1/2020 \$3.719 22.74% \$1.01.42.1.5 5.869 6/1/2020 \$3.1.9 12.21% \$1.09.4.00 6/1/2020 \$3.4.5 1.1.2.91% \$1.09.4.00 6/1/2020 \$3.4.5 1.1.9% \$1.03.00 1.599 6/1/2020 \$3.4.5 1.1.9% \$1.03.00 1.599 6/1/2020 \$3.0.1 -7.31% \$1.09.4.00 7/6/2020 \$3.2.6 1.09% \$1.09% \$1.078.55 7/13/2020 \$3.2.6 1.99% \$1.09% \$1.079.55 7/13/2020 \$3.2.6 1.99% \$1.099.1.70 7/20/2020 \$2.2.6 1.99% \$1.199.50 7/20/2020 \$3.50 5.3.14% \$1.178.40 7/20/2020 \$3.50 5.3.14% \$1.178.40 7/20/2020 \$3.50 5.3.14% \$1.119.1.173.45 1.088 8/1/2020 \$4.50 5.55 5.51% \$1.11.178.40 1.02.88 8/1/2020 \$4.50 5.50 5.51% \$1.11.178.40 1.248 8/1/2020 \$4.50 5.50 5.50 \$1.11.178.40 1.248 8/1/2020 \$4.50 5.50 5.50 \$1.11.178.40 1.248 8/1/2020 \$4.50 5.50 5.50 \$1.11.178.40 1.248 8/1/2020 \$4.50 5.50 5.50 \$1.11.178.40 1.248 8/1/2020 \$4.50 5.50 5.50 \$1.11.178.40 1.248 8/1/2020 \$4.50 5.50 5.50 \$1.11.178.40 1.248 8/1/2020 \$4.50 5.50 5.50 \$1.11.178.40 1.248 8/1/2020 \$4.50 5.50 5.50 \$1.11.178.40 1.248 8/1/2020 \$4.50 5.30 5.39% \$1.11.18.33.5 2.269 9/1/2020 \$4.50 5.30 5.30 \$1.09% \$1.11.18.45 5.3.25 9/1/2020 \$4.50 5.30 5.30 \$1.09% \$1.11.18.45 5.3.25 9/1/2020 \$4.50 5.30 5.30 \$1.09% \$1.11.18.45 5.3.25 9/1/2020 \$4.50 5.30 5.30 \$1.09% \$1.11.18.45 5.3.25 9/1/2020 \$4.50 5.30 5.30 \$1.09% \$1.11.18.45 5.3.25 9/1/2020 \$4.50 5.30 5.30 \$1.09% \$1.11.18.45 5.3.25 9/1/2020 \$4.50 5.30 5.30 \$1.09% \$1.11.18.45 5.3.25 9/1/2020 \$4.50 5.30 5.30 \$1.09% \$1.11.18.45 5.3.25 9/1/2020 \$4.50 5.30 5.30 \$1.09% \$1.11.18.45 5.3.25 9/1/2020 \$4.50 5.30 5.30 \$1.09% \$1.11.18.45 5.3.25 9/1/2020 \$4.50 5.30 5.30 \$1.09% \$1.11.18.45 5.3.25 9/1/2020 \$4.50 5.30 5.30 \$1.09% \$1.11.18.55 5.3.25 9/1/2020 \$4.50 5.30 5.30 \$1.00% \$1.1.18.55 5.3.25 9/1/2020 \$4.50 5.			₹29.36		₹:	8,660.25	-0.979
4/13/2020							
4/20/2020							
\$\frac{4}{17/2020}\$\$  \text{  \text{ \text{ \text{ \text{ \text{  \text{ \text{ \text{ \text{ \text{  \text{  \text{  \text{   \text{   \text{  \qua			₹ 42.75				
\$\frac{5}{1}\frac{1}{1}\frac{2}{1}\frac{1}{2}\frac{1}\frac{1}{2}\f							
\$\frac{5}{11/2020}\$  \qua							7.719
\$\( 5/18/2020 \) \$\( 43.33 \) \$\( 1.76\) \\ \$\( 45.039.25 \) \$\( 1.107\) \\ \$\( 5/27/2020 \) \$\( 43.03 \) \$\( 9.26\) \\ \$\( 45.530 \) \$\( 5.99\) \\ \$\( 6/17/2020 \) \$\( 43.719 \) \$\( 22.74\) \\ \$\( 4.10,142.15 \) \$\( 5.86\) \\ \$\( 6/17/2020 \) \$\( 43.61 \) \$\( -2.91\) \\ \$\( 4.10,241.40 \) \$\( 2.72\) \\ \$\( 6/15/2020 \) \$\( 43.65 \) \$\( -3.19\) \\ \$\( 4.10,344.40 \) \$\( 2.72\) \\ \$\( 6/27/2020 \) \$\( 43.45 \) \$\( -3.19\) \\ \$\( 4.10,607.35 \) \$\( 2.16\) \\ \$\( 6/27/2020 \) \$\( 43.45 \) \$\( -1.19\) \\ \$\( 4.10,607.35 \) \$\( 2.16\) \\ \$\( 7/67/2020 \) \$\( 43.26 \) \$\( -7.31\) \\ \$\( 4.10,607.35 \) \$\( 5.15\) \\ \$\( 7/13/2020 \) \$\( 43.26 \) \$\( -3.20\) \\ \$\( 4.10,901.70 \) \$\( 1.24\) \\ \$\( 7/20/2020 \) \$\( 43.26 \) \$\( -3.14\) \\ \$\( 4.10,73.45 \) \$\( -1.09\) \\ \$\( 8/13/2020 \) \$\( 43.65 \) \$\( -3.14\) \\ \$\( 4.11,073.45 \) \$\( -1.08\) \\ \$\( 8/13/2020 \) \$\( 43.65 \) \$\( 5.25\) \\ \$\( 4.11,178.40 \) \$\( 1.177.40 \) \$\( 1.137.20\) \$\( 4.11,178.40 \) \$\( 1.177.40\) \$\( 1.137.20\) \$\( 4.11,178.40 \) \$\( 1.137.20\) \$\( 4.11,178.40 \) \$\( 1.137.20\) \$\( 4.11,178.40 \) \$\( 1.137.20\) \$\( 4.11,178.40 \) \$\( 1.137.20\) \$\( 4.11,178.40 \) \$\( 1.137.20\) \$\( 4.11,178.40 \) \$\( 1.137.20\) \$\( 4.11,178.40 \) \$\( 1.137.20\) \$\( 4.11,178.40 \) \$\( 1.137.20\) \$\( 4.11,178.40 \) \$\( 1.137.20\) \$\( 4.11,178.40 \) \$\( 1.137.20\) \$\( 4.11,178.40 \) \$\( 1.137.20\) \$\( 4.11,178.40 \) \$\( 4.11,179.200 \) \$\( 4.28\) \$\( 4.11,179.200 \)							
\$\( 5/25/2020 \) \$\( 4.0.00 \) \$\( 9.26\) \$\( \) \$\							
6/8/2020							
6/15/2020		6/1/2020	₹37.19	22.74%	₹1	0,142.15	5.869
6/2//2020		6/8/2020		-2.91%	₹	9,972.90	
6/29/2020							
7/6/2020 \$ 32.64 1.99% \$ 1.078.05 1.519 7/13/2020 \$ 13.19 3.30% \$ 1.090/10 1.249 7/20/2020 \$ 29.73 5.88% \$ 1.1194.15 2.689 8/3/2020 \$ 32.65 5.88% \$ 1.1194.15 2.689 8/3/2020 \$ 36.15 25.51% \$ 1.1214.05 1.279 8/10/2020 \$ 39.66 9.11% \$ 1.1178.04 0.323 8/17/2020 \$ 46.648 17.20% \$ 1.11,171.60 1.279 8/17/2020 \$ 46.648 17.20% \$ 1.11,171.60 1.739 8/3/2020 \$ 40.23 5.93% \$ 1.11,671.60 2.439 8/3/17/2020 \$ 47.14 4.24% \$ 1.13,33.85 2.699 9/17/2020 \$ 45.13 4.26% \$ 1.11,504.95 1.059 9/17/2020 \$ 45.13 4.26% \$ 1.11,64.45 1.1159 9/17/2020 \$ 57.93 28.35% \$ 1.11,647.60 1.239 9/21/2020 \$ 59.69 3.04% \$ 1.11,64.25 3.329 9/21/2020 \$ 59.69 3.04% \$ 1.11,64.20 4.369 10/17/2020 \$ 67.50 13.09% \$ 1.11,416.95 3.329 10/5/2020 \$ 69.84 3.46% \$ 1.11,94.20 4.369 10/17/2020 \$ 67.80 2.22% \$ 1.17,62.45 1.1279 10/19/2020 \$ 68.93 1.67% \$ 1.11,94.35 1.248 10/17/2020 \$ 7.14.42 7.96% \$ 1.11,64.20 2.419 11/7/2020 \$ 7.1.66 1.07% \$ 1.1.97.955 3.729 11/16/2020 \$ 49.93 3.07 3.49% \$ 1.1.64.20 2.419 11/7/2020 \$ 7.1.66 1.07% \$ 1.2.79.955 3.729 11/16/2020 \$ 49.93 21.23% \$ 1.2.968.95 1.099 11/17/2020 \$ 49.93 21.23% \$ 1.2.96.95 1.099 11/17/2020 \$ 49.93 21.23% \$ 1.2.968.95 1.099 11/17/2020 \$ 49.93 3.21.23% \$ 1.2.968.95 1.099 11/17/2020 \$ 49.93 3.21.23% \$ 1.2.968.95 1.099 11/17/2020 \$ 49.93 3.21.23% \$ 1.2.968.95 1.099 11/17/2020 \$ 49.93 6.5.55% \$ 1.3.379 11/16/2020 \$ 49.93 6.5.5							
7/13/2020							
7/20/2020							
7/27/2020							
\$\( 8/1)\( 7/200 \)  \qua							
8/10/2020			₹36.15	25.51%	₹1	1,214.05	1.279
8/14/2020		8/10/2020	₹ 39.66	9.71%	₹1	1,178.40	-0.329
8/31/2020							
9/1/2020							
9/14/2020 \$57.93 28.35% \$11,504.95 0.35% 9/21/2020 \$59.99 3.00% \$11,504.95 0.35% 9/28/2020 \$67.50 13.09% \$11,446.95 3.32% 10/5/2020 \$67.50 13.09% \$11,446.95 3.32% 10/5/2020 \$67.80 2.22% \$11,446.95 3.32% 10/12/2020 \$67.80 2.22% \$11,762.45 1.27% 10/19/2020 \$67.80 2.22% \$11,762.45 1.27% 10/19/2020 \$74.42 7.96% \$11,90.35 1.43% 10/26/2020 \$74.42 7.96% \$11,90.25 5.35% 11/2/2020 \$71.96 1.07% \$12,79.95 3.72% 11/2/2020 \$71.96 1.07% \$12,79.95 3.72% 11/2/2020 \$71.96 1.07% \$12,79.95 3.72% 11/2/2020 \$71.96 1.07% \$12,79.95 3.72% 11/2/2020 \$71.96 1.07% \$12,79.95 5.37% 11/2/2020 \$71.96 1.07% \$12,79.95 5.37% 11/2/2020 \$71.96 1.07% \$12,79.95 5.37% 11/2/2020 \$71.96 1.07% \$13,30% \$13,385.55 2.23% 11/2/2020 \$79.00 4.22% \$13,385.55 2.23% 12/2/2020 \$79.00 4.22% \$13,385.55 1.23% 12/2/2020 \$79.20 4.23% \$13,39.55 1.23% 12/2/2020 \$79.20 4.25% \$13,30% \$13,30% \$13,30% \$13,30% \$12,88/2020 \$70.00 4.22% \$13,30% \$13,79.25 0.08% 11/2/2020 \$79.20 4.56 1.35% \$13,30% \$14,043.50 1.56% 11/4/2021 \$10.461 10.63% \$14,047.25 2.35% 11/1/2021 \$11.76 12.44% \$14,371.30 0.05% 11/1/2021 \$11.76 12.44% \$14,371.30 0.05% 11/1/2021 \$10.57 1.51% \$15,153.30 1.05% 21/2/2021 \$10.10 1.20% \$13,544.60 5.313% 21/2/2021 \$10.10 1							
9/21/2020							
9/28/2020			₹57.93				
10/5/2020							
10/12/2020							
10/26/2020							
10/26/2020							
11/9/2020			₹ 74.42				
11/16/2020							
11/23/2020							
11/80/2020		11/16/2020	₹74.18	3.09%	₹1		1.099
12/1/2020		11/23/2020	₹89.93	21.23%	₹1 **	2,500.55	0.859
12/14/2020							
12/21/2020							
12/28/2020							
1/4/2021			₹94.56				1.969
1/11/2021		1/4/2021	₹ 104.61	10.63%			2.359
1/18/2021		1/11/2021	₹ 117.63	12.44%	₹1	4,433.70	0.609
2/1/2021					₹1	4,371.90	-0.439
2/R/2021							
2/15/2021         ₹101.06         -4.45%         ₹14,981.75         -1.20%           2/27/2021         ₹110.05         8.89%         ₹14,529.15         -3.02%           3/1/2021         ₹113.61         3.23%         ₹14,938.10         2.819           3/8/7021         ₹109.50         -3.61%         ₹15,000.95         0.62%							
2/22/2021							
3/1/2021 ₹113.61 3.23% ₹14,938.10 2.81% 3/8/2021 ₹109.50 -3.61% ₹15,030.95 0.62%							
3/8/2021 ₹109.50 -3.61% ₹15,030.95 0.629							
					₹1.	4,744.00	

Beta Drifting	
Levered Raw Beta	1.39
Raw Beta Weight	75.00%
Market Beta	1.00
Market Beta Weight	25.00%
Adjusted Beta	1.2925



### Weighted Average Cost of Capital

#### Peer Comps

Name	Country	Total Debt	Total Equity	Tax Rate1	Debt/Equity	Debt/Capital	Levered Beta 2	Unlevered Beta 3
Ramkrishna Forg.	India	1,561.38	12,486.21	30.00%	12.50%	11.11%	0.75	0.69
Bharat Forge	India	7,503.70	53,340.16	30.00%	14.07%	12.33%	1.28	1.17
AIA Engineering	India	483.83	37,687.12	30.00%	1.28%	1.27%	0.40	0.40
CIE Automotive	India	855.41	18,482.54	30.00%	4.63%	4.42%	1.06	1.03
TVS Holdings	India	26,402.89	16,897.95	30.00%	156.25%	60.98%	0.76	0.36
		_						
		A	verage	30.00%	44.06%	19.75%	0.88	0.74
		<u>N</u>	/ledian	30.00%	9.35%	8.38%	0.91	0.71

#### Cost of Debt

Pre-tax cost of debt	2.63%
Tax Rate	30.00%
After Tax cost of debt	1.84%

#### **Capital Structure**

		Current	Target
Total Debt	1,561.38	11.11%	44.06%
Market Capitalization	12,486.21	88.89%	55.94%
<b>Total Capitalization</b>	14,047.59	100.00%	100.00%
Debt / Equity		12.50%	78.75%

- 1. Tax Rate considered as Marginal Tax Rate for the country
- 2. Levered Beta is based on 5 year monthly data
- 3. Unlevered Beta = Levered Beta/(1+(1-Tax Rate) x Debt/Equity)
- 3. Levered Beta = Unlevered Beta/(1+(1-Tax Rate) x Debt/Equity)

#### Cost of Equity

Cost of Equity	13 63%
Levered Beta 4	0.76
Equity Risk Premium	8.30%
Risk free rate	7.35%

#### Levered Beta

Comps Median Unlevered Beta	0.71
Target Debt/ Equity	78.75%
Tax Rate	30.00%
Levered Beta	0.76
Weighted Average Cost of Capital	
Cost of Equity	13.63%
Equity Weight	55.94%
Cost of Debt	1.84%
Debt Weight	44.06%



### **Intrinsic Growth**

Calculation of ROIC	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23
Courses Assets						
Current Assets	7 200 00	T 222 00	7.250.00	T 420 00	7.740.00	7 000 00
Inventories	₹ 299.00	₹ 332.00	₹ 360.00	₹ 439.00	₹ 710.00	₹ 908.00
Trade receivables	₹ 515.00	₹510.00	₹343.00	₹ 573.00	₹891.00	₹ 775.00
Cash Equivalents	₹ 1.00	₹ 3.00	₹ 3.00	₹ 68.00	₹ 38.00	₹ 47.00
Short term loans	₹ 1.00	₹ 1.00	₹ 8.00	-	₹ 2.00	₹ 2.00
Other asset items	₹ 120.00	₹ 112.00	₹ 122.00	₹ 106.00	₹ 183.00	₹ 215.00
Total Current Assets	₹ 936.00	₹ 958.00	₹ 836.00	₹ 1,186.00	₹ 1,824.00	₹ 1,947.00
Current Liabilities						
Trade Payables	₹ 301.00	₹ 279.00	₹ 214.00	₹ 433.00	₹ 608.00	₹ 792.00
Advance from Customers	₹ 4.00	₹ 6.00	₹ 6.00	₹ 10.00	₹ 16.00	₹ 17.00
Other liability items	₹ 148.00	₹ 132.00	₹ 140.00	₹ 145.00	₹ 160.00	₹ 267.00
Total Current Liabilities	₹ 453.00	₹ 417.00	₹ 360.00	₹ 588.00	₹ 784.00	₹ 1,076.00
Net Working Capital	₹ 483.00	₹ 541.00	₹ 476.00	₹ 598.00	₹ 1,040.00	₹ 871.00
Non Current Assets						
Land	₹ 17.00	₹ 17.00	₹ 26.00	₹ 28.00	₹ 42.00	₹ 40.00
Building	₹ 134.00	₹ 146.00	₹ 217.00	₹ 232.00	₹ 317.00	₹ 410.00
Plant Machinery	₹ 1,033.00	₹ 1,172.00	₹ 1,254.00	₹ 1,411.00	₹ 1,705.00	₹ 2,007.00
Equipments	₹ 1.00	₹ 1.00	₹ 7.00	₹ 9.00	₹ 9.00	₹ 9.00
Furniture n fittings	₹5.00	₹ 8.00	₹ 9.00	₹ 10.00	₹ 11.00	₹ 16.00
Railway slidings	-	-	-	-	-	-
Vehicles	₹ 6.00	₹ 7.00	₹ 7.00	₹ 9.00	₹9.00	₹ 10.00
Intangible Assets	₹5.00	₹ 5.00	₹ 5.00	₹ 5.00	₹5.00	₹ 5.00
Other fixed assets	₹5.00	₹ 5.00	₹ 5.00	₹ 5.00	₹ 6.00	₹ 6.00
Other liked assets	(3.00	(5.00	(3.00	(3.00	(0.00	(0.00
Gross Block	₹ 1,235.00	₹ 1,393.00	₹ 1,572.00	₹ 1,753.00	₹ 2,151.00	₹ 2,568.00
Accumulated Depreciation	₹ 159.00	₹ 279.00	₹ 397.00	₹512.00	₹ 678.00	₹ 876.00
Net Non Current Assets	₹ 1,394.00	₹ 1,672.00	₹ 1,969.00	₹ 2,265.00	₹ 2,829.00	₹ 3,444.00
Invested Capital	₹ 1,877.00	₹ 2,213.00	₹ 2,445.00	₹ 2,863.00	₹ 3,869.00	₹ 4,315.00
EBIT	₹ 204.28	₹ 264.76	₹ 88.19	₹ 107.58	₹ 348.92	₹ 492.23
ROIC	10.88%	11.96%	3.61%	3.76%	9.02%	11.41%
	2010073		0.02/2	512 675	5.02/2	22112/3
Calculation of Reinvestment I	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23
Net Capex	₹ 112.00	₹ 255.00	₹ 228.00	₹ 230.00	₹ 300.00	₹ 355.00
Change in Working Capital		₹ 58.00	₹ (65.00)	₹ 122.00	₹ 442.00	₹ (169.00)
EBIT	₹ 204.28	₹ 264.76	₹88.19	₹ 107.58	₹ 348.92	₹ 492.23
Marginal Tax Rate	25%	25%	25%	25%	25%	25%
EBIT(1-T)	₹ 153.21	₹ 198.57	₹ 66.14	₹80.69	₹ 261.69	₹ 369.17
Reinvestment		₹ 313.00	₹ 163.00	₹ 352.00	₹ 742.00	₹ 186.00
Reinvestment Rate		157.63%	246.44%	436.26%	283.54%	50.38%
				A Vaa	r Average	254.16%
					r Median	264.99%
Calculation of Growth Rate	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23
Reinvestment Rate		157.63%	246.44%	436.26%	283.54%	50.38%
ROIC		11.96%	3.61%	3.76%	9.02%	11.41%
Intrinsic Growth		18.86%	8.89%	16.39%	25.57%	5.75%
					r Average r Median	14.15% 12.64%



## **Hindustan Aeronautics Limited**

### **DCF** Valuation

Calculation of PV of FCFF	Mar/23A	Mar/24F	Mar/25F	Mar/26F	Mar/27F	Mar/28F
EBIT	492.23	516.84	542.68	569.82	598.31	628.22
Tax Rate	25.00%	25.00%	25.00%	25.00%	25.00%	25.00%
EBIT(1-T)	369.1725	387.63	407.01	427.36	448.73	471.17
Less: Reinvestment Rate	50.38%	50.38%	50.38%	50.38%	50.38%	50.38%
Free Cash Flow to Firm (FCFF)	183.1725	192.33	201.95	212.05	222.65	233.78
Mid Year Convention		0.5	1.5	2.5	3.5	4.5
Discounting Factor		0.96	0.89	0.82	0.75	0.69
PV of FCFF		184.70	178.84	173.17	167.69	162.37

Expected Growth	5.00%
Terminal Growth	6.25%
WACC	8.44%

Calculation of Terminal Value	
FCFF (n+1)	245.47
WACC	8.44%
Terminal Growth Rate	6.25%
Terminal Value	11 223 56

Calculation of Equity Value per Share	
PV of FCFF	866.77
PV of Terminal Value	7,795.25
Value of Operating Assets	8,662.02
Add: Cash	47.3
Less: Debt	1308
Value of Equity	7,401.32
No of Shares	18.08
Equity Value per Share	409.42
Share price	695.75
Discount/Premium	1.70x

Sensitivity Analysis									
	6.00%	8.44%	9.20%	14.00%					
4.00%	12273.43	5528.57	4720.55	2454.69					
5.00%	24546.87	7135.72	5844.49	2727.43					
6.25%	-98187.47	11208.62	8320.97	3167.34					
8.00%	-12273.43	55788.33	20455.72	4091.14					
9.00%	-8182 29	-43833 69	122734 33	4909 37					



Amount in crores
Comparable Company Valuation

			Market D	)ata		Financials		Valuation				
			Shares	Warker	oata	Enterprise		i ilialiciais			Valuation	
Company	Ticker	Share Price		<b>Equity Value</b>	Net Debt	Value	Revenue	EBITDA	Net Income	EV/Revenue	EV/EBITDA	P/E
Ramkrishna Forg.		690.7	18.08	12486.21	1561.38	13982.77	3823.26	1057.57	316.04	3.66x	13.22x	39.51x
Bharat Forge		1145.65	46.56	53340.16	7503.7	59564.31	15146.92	3174.87	810.79	3.93x	18.76x	65.79x
AIA Engineering		3995.65	9.43	37687.12	483.83	36862.42	4977.11	1451.1	1144.17	7.41x	25.40x	32.94x
CIE Automotive		487.2	37.94	18482.54	855.41	19099.23	9280.35	1745.61	1125.15	2.06x	10.94x	16.43x
TVS Holdings		8352.05	2.02	16897.95	26402.89	39776.26	38397.69	6226.96	1723.03	1.04x	6.39x	9.81x
High										7.41X	25.40X	65.79X
75th Percentile										3.93X	18.76X	39.51
Average										3.62X	14.94X	32.89X
Median										3.66X	13.22X	32.94X
25th Percentile										2.06X	10.94X	16.43
Low										1.04X	6.39X	9.81X
RK FORGE Comparable	Valuation									EV/Revenue	EV/EBITDA	P/E
Implied Enterprise Valu	e									13982.77	13982.77	11971.23
Net Debt							<u> </u>			1561.38	1561.38	1561.38
Implied Market Value						-	·			12421.39	12421.39	10409.85
Shares Outstanding	·	·	·							18.08	18.08	18.08
Implied Value per Shar	e									687.02	687.02	575.77

overvalued overvalued