

FINANCIAL MODELING REPORT

(A Comprehensive DCF and Comparable Comps Valuation)



TATA MOTORS LTD

(NSE: TATAMOTORS | BSE: 500570)





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TATA MOTORS LTD - One Page Profile



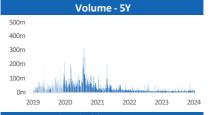
Tata Motors Group is a leading global automobile manufacturer. Part of the illustrious multi-national conglomerate, the Tata group, it offers a wide and diverse portfolio of cars, sports utility vehicles, trucks, buses and defence vehicles to the world. It has operations in India, the UK, South Korea, South Africa, China, Brazil, Austria and Slovakia through a strong global network of subsidiaries, associate companies and Joint Ventures (JVs).

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Key Financial Metrics	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
Total Sales	2,61,068	2,49,795	2,78,454	3,45,967	4,37,928
Sales Growth (y-o-y)	-13.54%	-4.32%	11.47%	24.25%	26.58%
Gross Profit Margins (%)	19.42%	21.81%	19.81%	20.69%	28.01%
EBITDA Margins (%)	6.89%	12.93%	8.88%	9.20%	13.60%
EBIT Margins (%)	-1.32%	3.50%	-0.04%	2.01%	7.37%
Net Profit Margins (%)	-4.24%	-0.76%	-4.91%	-1.15%	5.97%
Earnings per Share (in Rs)	-35.86	-5.72	-41.13	-11.97	78.63
EPS Growth (y-o-y)	-360.68%	84.06%	-619.43%	70.91%	757.14%
Dividend per Share (in Rs)	-	-	-	2.31	3.46
Dividend Growth (y-o-y)	0.00%	0.00%	0.00%	-19.28%	4.40%



Key Financial Ratios	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
Price to Earnings	-1.98x	-52.79x	-10.55x	-35.17x	12.63x
EV/EBITDA	6.28x	6.06x	10.11x	7.44x	6.57x
EV/Sales	0.43x	0.78x	0.90x	0.68x	0.89x
Price to Book Value	0.35x	1.81x	3.23x	3.08x	3.89x
Return on Equity (%)	-17.81%	-3.44%	-30.65%	-8.77%	30.78%
Return on Capital Employed (%)	-1.84%	4.43%	-0.06%	3.88%	16.79%



Top 10 Shareholders	N. Shares (in Crs)	%	Holding	Market Value (in Crs)		
Tata Sons Private Limited		145	43.69%	1,34,008		
Life Insurance Corporation Of India		10	3.01%	9,245		
Sbi Nifty 50 Etf		8	2.35%	7,221		
Tata Industries Limited		1	2.1/%	ხ,ხხპ		
Rekha Jhunjhunwala		4	1.29%	3,950		
Axis Mutual Fund Trustee Limited		4	1.20%	3,668		
Uti - Nifty Exchange Traded Fund		3	1.03%	3,144		
Tata Investment Corporation Limited		1	0.33%	1,015		
Investor Education & Protection Fund		1	0.29%	899		
Ewart Investments Limited		0	0.09%	285		



Managerial Remuneration	Designation	Remuneration	X of Median Salary
Mr N Chandrasekaran	Chairman	-	-
Mr Girish Wagh	Executive Director	6.96	60.21x
Mr P B Balaji	Chief Financial Officer	20.78	NA
Mr Maloy Kumar Gupta	Company Secretary	1.69	NA

As a Policy, Mr N Chandrasekaran, Chairman, has abstrained from receiving commission from the Company and hence not stated.

The median remuneration of employees for the FY24 is ₹11.57 lakh.

The percentage increased in the median remuneration of employees in the financial year was 6.1%.

Cap	
Share Price as on J	923
Number of Share C	366
Market Capitalisat	3,38,176
Less: Cash & Equ	(45,807)
Add: Total Debt	1,07,263
Add: Minority In	8,175
Enterprise Value	4,07,806

Key Points

Tata Passenger Vehicles: This includes Tata PV, EV India, FIAPL JO results and International business (PV + EV). VAHAN Domestic Market share in H1FY24 was 13.5%. The company has 287 dealers for EVs in 190+ cities in H1FY24 and ~75% market share in EV market. The charging infra also reached to ~77800 in H1FY24.

Capex: The company spent Rs. ~3781 crs. in H1FY24. Major expenditure was done on PV + EV segment. FY24 capex estimated at ~ Rs. 8,000 crs. as electrification investments step up.

Expansion: The company is expanding its manufacturing capacity after acquiring the facility from Ford in Sanand. The annual capacity of 300,000 units - scalable to 420,000 units. Industrialization of Sanand plant to begin in CY2024.

Robust Infrastructure: The Group owns 10 manufacturing facilities in India, 5 in UK, 2 in Europe, and has also set up a manufacturing facility in China in a Joint Venture with Chery Automobiles. It also operates various R&D centres from UK, North America, Europe and India.

IPO of Tata Technologies: In Nov,23, Tata Technologies (a subsidiary of Tata Motors) issued its IPO at offer price of Rs. 500/-. IPO aggregated to ~Rs. 30,000 mn, comprising of an offer for sale of 46,275,000 Equity Shares by the Company amounting to Rs. 23,137.50 mn, 9,716,853 Equity Shares by Alpha TC Holdings Pte. Ltd. amounting to Rs. 4,858.43 mn and 4,858,425 Equity Shares by Tata Capital Growth Fund I amounting to Rs. 2,429.21 mn. Consequently, Company's shareholding in Tata Technologies Limited reduced from 64.79% to 53.39%

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Historical Financial Statement

Historical Financial Statement - TATA MOTORS LTD												
Years	Mar-15	Mar-16	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24	LTM	
Income Statement												
Sales	₹ 2,63,158.98	₹ 2,73,045.60	₹ 2,69,692.51	₹ 2,91,550.48	₹ 3,01,938.40	₹ 2,61,067.97	₹ 2,49,794.75	₹ 2,78,453.62	₹ 3,45,966.97	₹ 4,37,927.77	₹ 4,37,927.77	
Sales Growth	-	3.76%	-1.23%	8.10%	3.56%	-13.54%	-4.32%	11.47%	24.25%	26.58%	0.00%	
COGS	₹ 2,02,856.88	₹ 2,05,509.07	₹ 2,05,454.24	₹ 2,28,429.83	₹ 2,42,845.53	₹ 2,10,376.07	₹ 1,95,326.04	₹ 2,23,300.01	₹ 2,74,403.64	₹ 3,15,242.34	₹ 3,78,389.43	
COGS % Sales	77.09%	75.27%	76.18%	78.35%	80.43%	80.58%	78.19%	80.19%	79.31%	71.99%	86.40%	
Gross Profit	₹ 60,302.10	₹ 67,536.53	₹ 64,238.27	₹ 63,120.65	₹ 59,092.87	₹ 50,691.90	₹ 54,468.71	₹ 55,153.61	₹ 71,563.33	₹ 1,22,685.43	₹ 59,538.34	
Gross Margins	22.91%	24.73%	23.82%	21.65%	19.57%	19.42%	21.81%	19.81%	20.69%	28.01%	13.60%	
Selling & General Expense	₹ 21,063.45	₹ 29,141.28	₹ 34,649.58	₹ 31,662.97	₹ 34,428.54	₹ 32,704.83	₹ 22,181.28	₹ 30,433.52	₹ 39,747.53	₹ 63,147.09	₹ 0.00	
S&G Exp % Sales	8.00%	10.67%	12.85%	10.86%	11.40%	12.53%	8.88%	10.93%	11.49%	14.42%	0.00%	
EBITDA	₹ 39,238.65	₹ 38,395.25	₹ 29,588.69	₹ 31,457.68	₹ 24,664.33	₹ 17,987.07	₹ 32,287.43	₹ 24,720.09	₹ 31,815.80	₹ 59,538.34	₹ 59,538.34	
EBITDA Margins	14.91%	14.06%	10.97%	10.79%	8.17%	6.89%	12.93%	8.88%	9.20%	13.60%	13.60%	
Interest	₹ 4,861.49	₹ 4,889.08	₹ 4,238.01	₹ 4,681.79	₹ 5,758.60	₹ 7,243.33	₹ 8,097.17	₹ 9,311.86	₹ 10,225.48	₹ 9,985.76	₹ 9,985.76	
Interest % Sales	1.85%	1.79%	1.57%	1.61%	1.91%	2.77%	3.24%	3.34%	2.96%	2.28%	2.28%	
Depriciation	₹ 13,388.63	₹ 16,710.78	₹ 17,904.99	₹ 21,553.59	₹ 23,590.63	₹ 21,425.43	₹ 23,546.71	₹ 24,835.69	₹ 24,860.36	₹ 27,270.13	₹ 27,270.13	
Depriciation % Sales	5.09%	6.12%	6.64%	7.39%	7.81%	8.21%	9.43%	8.92%	7.19%	6.23%	6.23%	
Earning before Tax	₹ 20,988.53	₹ 16,795.39	₹ 7,445.69	₹ 5,222.30	₹ (4,684.90)	₹ (10,681.69)	₹ 643.55	₹ (9,427.46)	₹ (3,270.04)	₹ 22,282.45	₹ 22,282.45	
EBT % Sales	7.98%	6.15%	2.76%	1.79%	-1.55%	-4.09%	0.26%	-3.39%	-0.95%	5.09%	5.09%	
Tax	₹ 7,642.91	₹ 3,025.05	₹ 3,251.23	₹ 4,341.93	₹ (2,437.45)	₹ 395.25	₹ 2,541.86	₹ 4,231.29	₹ 704.06	₹ (3,851.64)	₹ (3,851.64)	
Effective Tax Rate	36.41%	18.01%	43.67%	83.14%	52.03%	-3.70%	394.97%	-44.88%	-21.53%	-17.29%	-17.29%	
Net Profit	₹ 13,345.62	₹ 13,770.34	₹ 4,194.46	₹ 880.37	₹ (2,247.45)	₹ (11,076.94)	₹ (1,898.31)	₹ (13,658.75)	₹ (3,974.10)	₹ 26,134.09	₹ 26,134.09	
Net Margins	5.07%	5.04%	1.56%	0.30%	-0.74%	-4.24%	-0.76%	-4.91%	-1.15%	5.97%	5.97%	
No. of Equity Shares	288.74	288.72	288.73	288.73	288.73	308.9	332.03	332.07	332.13	332.37	332.37	
Earning per Share	₹ 46.22	₹ 47.69	₹ 14.53	₹ 3.05	₹ (7.78)	₹ (35.86)	₹ (5.72)	₹ (41.13)	₹ (11.97)	₹ 78.63	₹ 78.63	
EPS Growth %		3.19%	-69.54%	-79.01%	-355.28%	-360.68%	84.06%	-619.43%	70.91%	757.14%	0.00%	
Dividend per Share	-	₹ 0.24	-	-	-	-	-	-	₹ 2.31	₹ 3.46	-	
Dividend payout Ratio	0.00%	0.49%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	-19.28%	4.40%	0.00%	
Retained Earnings	100.00%	99.51%	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	95.60%	100.00%	

Balance Sheet											
Equity Share Capital	₹ 643.78	₹ 679.18	₹ 679.22	₹ 679.22	₹ 679.22	₹ 719.54	₹ 765.81	₹ 765.88	₹ 766.02	₹ 766.50	-
Reserves	₹ 55,618.14	₹ 78,273.23	₹ 57,382.67	₹ 94,748.69	₹ 59,500.34	₹ 61,491.49	₹ 54,480.91	₹ 43,795.36	₹ 44,555.77	₹ 84,151.52	_
Borrowings	₹ 73,610.39	₹ 69,359.96	₹ 78,603.98	₹ 88,950.47	₹ 1,06,175.34	₹ 1,24,787.64	₹ 1,42,130.57	₹ 1,46,449.03	₹ 1,34,113.44	₹ 1,07,262.50	-
Other Liabilities	₹ 1,07,442.48	₹ 1,14,871.75	₹ 1,35,914.49	₹ 1,42,813.43	₹ 1,39,348.59	₹ 1,33,180.72	₹ 1,44,192.62	₹ 1,38,051.22	₹ 1,55,239.20	₹ 1,78,483.44	-
Total Liablilities	₹ 2,37,314.79	₹ 2,63,184.12	₹ 2,72,580.36	₹ 3,27,191.81	₹ 3,05,703.49	₹ 3,20,179.39	₹ 3,41,569.91	₹ 3,29,061.49	₹ 3,34,674.43	₹ 3,70,663.96	-
Fixed Assets Net Block	₹ 88,479.49	₹ 1,07,231.76	₹ 95,944.08	₹ 1,21,413.86	₹ 1,11,234.47	₹ 1,27,107.14	₹ 1,38,707.61	₹ 1,38,855.45	₹ 1,32,079.76	₹ 1,46,046.56	-
Capital Work in Progress	₹ 28,640.09	₹ 25,918.94	₹ 33,698.84	₹ 40,033.50	₹ 31,883.84	₹ 35,622.29	₹ 20,963.93	₹ 10,251.09	₹ 14,274.50	₹ 10,937.33	-
Investments	₹ 15,336.74	₹ 23,767.02	₹ 20,337.92	₹ 20,812.75	₹ 15,770.72	₹ 16,308.48	₹ 24,620.28	₹ 29,379.53	₹ 26,379.16	₹ 22,971.07	-
Other Assets	₹ 30,891.17	₹ 29,579.36	₹ 37,360.78	₹ 48,286.86	₹ 56,155.74	₹ 58,784.94	₹ 61,717.96	₹ 62,223.77	₹ 68,432.09	₹ 80,162.21	_
Total Non Current Assets	₹ 1,63,347.49	₹ 1,86,497.08	₹ 1,87,341.62	₹ 2,30,546.97	₹ 2,15,044.77	₹ 2,37,822.85	₹ 2,46,009.78	₹ 2,40,709.84	₹ 2,41,165.51	₹ 2,60,117.17	
Danai: Jahlan	3 12 F70 20	3 12 F70 01	3 14 07F FF	3 10 002 20	3 10 000 17	3 11 172 CO	3 12 670 00	3 12 442 12	3 15 727 07	# 1C 0F1 01	
Receivables	₹ 12,579.20	₹ 13,570.91	₹ 14,075.55	₹ 19,893.30	₹ 18,996.17	₹ 11,172.69 ₹ 27,456.89	₹ 12,679.08	₹ 12,442.12	₹ 15,737.97	₹ 16,951.81	-
Inventory	₹ 29,272.34	₹ 32,655.73	₹ 35,085.31	₹ 42,137.63	₹ 39,013.73	₹ 37,456.88	₹ 36,088.59	₹ 35,240.34	₹ 40,755.39 ₹ 37,015.56	₹ 47,788.29	-
Cash & Bank	₹ 32,115.76	₹ 30,460.40	₹ 36,077.88	₹ 34,613.91	₹ 32,648.82	₹ 33,726.97	₹ 46,792.46	₹ 40,669.19		₹ 45,806.69	
Total Current Assets	₹ 73,967.30	₹ 76,687.04	₹ 85,238.74	₹ 96,644.84	₹ 90,658.72	₹ 82,356.54	₹ 95,560.13	₹ 88,351.65	₹ 93,508.92	₹ 1,10,546.79	<u> </u>
Total Assets	₹ 2,37,314.79	₹ 2,63,184.12	₹ 2,72,580.36	₹ 3,27,191.81	₹ 3,05,703.49	₹ 3,20,179.39	₹ 3,41,569.91	₹ 3,29,061.49	₹ 3,34,674.43	₹ 3,70,663.96	
CHECK	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE	TRUE
Cash Flow Statements											
Operating Activites											
Profit from operations	₹ 43,397.00	₹ 38,626.00	₹ 28,840.00	₹ 33,312.00	₹ 28,771.00	₹ 23,352.00	₹ 31,198.00	₹ 26,943.00	₹ 41,694.00	₹ 65,106.00	-
Receivables	₹ (3,179.00)	₹ (2,223.00)	₹ (4,152.00)	₹ (10,688.00)	₹ (9,109.00)	₹ 9,950.00	₹ (5,505.00)	₹ 185.00	₹ (2,213.00)	₹ (1,875.00)	-
Inventory	₹ (3,692.00)	₹ (5,743.00)	₹ (6,621.00)	₹ (3,560.00)	₹ 2,069.00	₹ 2,326.00	₹ 3,814.00	₹ 472.00	₹ (5,665.00)	₹ (7,265.00)	-
Payables	₹ 3,598.00	₹ 3,947.00	₹ 9,301.00	₹ 7,320.00	₹ (4,692.00)	₹ (8,085.00)	₹ 5,748.00	₹ (7,012.00)	₹ 6,945.00	₹ 13,706.00	_
Loans Advances	-,	₹ (520.00)	- ,	-	. ,	-	-,5.50	. ,======	-,5	-,	_
Other WC items	₹ (398.00)	₹ 5,852.00	₹ 4,727.00	₹ 494.00	₹ 4,512.00	₹ 875.00	₹ (4,150.00)	₹ (4,396.00)	₹ (2,194.00)	₹ 2,760.00	_
Working capital changes	₹ (3,672.00)	₹ 1,313.00	₹ 3,254.00	₹ (6,434.00)	₹ (7,221.00)	₹ 5,065.00	₹ (93.00)	₹ (10,750.00)	₹ (3,127.00)	₹ 7,325.00	_
Direct taxes	₹ (4,194.00)	₹ (2,040.00)	₹ (1,895.00)	₹ (3,021.00)	₹ (2,659.00)	₹ (1,785.00)	₹ (2,105.00)	₹ (1,910.00)	₹ (3,179.00)	₹ (4,516.00)	-
Cash from Operating Activities	₹ 31,860.00	₹ 39,212.00	₹ 33,454.00	₹ 17,423.00	₹ 11,671.00	₹ 31,698.00	₹ 28,907.00	₹ 3,532.00	₹ 32,261.00	₹ 75,241.00	_
Investing Activities											
Fixed assets purchased	₹ (31,962.00)	₹ (31,503.00)	₹ (16,072.00)	₹ (35,079.00)	₹ (35,304.00)	₹ (29,702.00)	₹ (20,205.00)	₹ (15,168.00)	₹ (19,230.00)	₹ (31,414.00)	-
Fixed assets sold	₹ 74.00	₹ 59.00	₹ 53.00	₹ 30.00	₹ 67.00	₹ 171.00	₹ 351.00	₹ 230.00	₹ 285.00	₹ 231.00	-
Investments purchased	₹ (5,461.00)	₹ (4,728.00)	₹ (6.00)	₹ (329.00)	₹ (130.00)	₹ (1,439.00)	₹ (7,530.00)	₹ (3,008.00)	₹ (50.00)	₹ (74.00)	-
Investments sold	₹ 42.00	₹ 89.00	₹ 1,965.00	₹ 2,381.00	₹ 5,644.00	₹ 21.00	₹ 226.00	₹ 104.00	₹ 6,895.00	₹ 10,820.00	-
Interest received	₹ 698.00	₹ 731.00	₹ 638.00	₹ 690.00	₹ 761.00	₹ 1,104.00	₹ 428.00	₹ 653.00	₹ 973.00	₹ 2,493.00	-
Dividends received	₹ 80.00	₹ 58.00	₹ 620.00	₹ 1,797.00	₹ 232.00	₹ 21.00	₹ 18.00	₹ 32.00	₹ 46.00	₹ 47.00	-
Investment in group cos	₹ (160.00)	-	₹ (107.00)	₹ (4.00)	₹ (9.00)	₹ (606.00)	₹ (10.00)	-	-	₹ (150.00)	-
Redemp n Canc of Shares	-	-	-	₹ 14.00	₹533.00	-	-	-	₹ 19.00	₹ 108.00	-
Acquisition of companies	-	₹ (111.00)	-	-	₹ (8.00)	₹ (27.00)	-	₹ (98.00)	-	-	-
Inter corporate deposits	-	-	-	-	-	-	-	-	-	₹ (24.00)	-
Other investing items	₹ 456.00	₹ (1,289.00)	₹ (26,663.00)	₹ 5,360.00	₹ 7,335.00	₹ (2,659.00)	₹ 1,051.00	₹ 12,813.00	₹ (4,357.00)	₹ (4,817.00)	
Cash from Investing Activities	₹ (36,233.00)	₹ (36,694.00)	₹ (39,572.00)	₹ (25,140.00)	₹ (20,879.00)	₹ (33,116.00)	₹ (25,671.00)	₹ (4,442.00)	₹ (15,419.00)	₹ (22,780.00)	
Financing Activities											
Proceeds from shares		₹7,433.00	₹ 5.00			₹ 3,889.00	₹ 2,603.00	₹ 19.00	₹ 20.00	₹82.00	
Redemption of debentures	₹ (744.00)	₹7,433.00	₹ 3.00	-	-	1 3,003.00	` 2,003.00	1 15.00	₹ 20.00	\ 62.00	-
	₹ 36,363.00	₹ 19,519.00	₹ 33,390.00	- ∓ 27 402 00	= ∓ E1 130 00	₹ 38,297.00	± 16 € 11 00	₹ 46,578.00	₹ 43,934.00	- ₹ 18,747.00	-
Proceeds from borrowings				₹ 37,482.00	₹ 51,128.00 ₹ (35.108.00)		₹ 46,641.00				-
Repayment of borrowings	₹ (23,332.00)	₹ (24,924.00) ₹ /F 716.00)	₹ (21,732.00)	₹ (29,964.00) ₹ (5,411.00)	₹ (35,198.00)	₹ (29,847.00)	₹ (29,709.00)	₹ (42,816.00) ₹ (0.351.00)	₹ (62,557.00)	₹ (47,332.00)	-
Interest paid fin	₹ (6,307.00)	₹ (5,716.00)	₹ (5,336.00)	₹ (5,411.00)	₹ (7,005.00)	₹ (7,518.00)	₹ (8,123.00)	₹ (9,251.00)	₹ (9,336.00)	₹ (9,332.00)	-
Dividends paid	₹ (720.00)	₹ (108.00)	₹ (121.00)	₹ (96.00)	₹ (95.00)	₹ (57.00)	₹ (30.00)	₹ (100.00)	₹ (141.00)	₹ (1,059.00)	-
Financial liabilities	= /== 0=:	-	-	-	-	₹ (1,346.00)	₹ (1,477.00)	₹ (1,559.00)	₹ (1,517.00)	₹ (1,924.00)	-
Other financing items	₹ (57.00)		- -	-	-	₹ (29.00)	- -	₹ 3,750.00	₹ 3,355.00	₹ 3,812.00	
Cash from Financing Activities	₹ 5,203.00	₹ (3,796.00)	₹ 6,206.00	₹ 2,011.00	₹ 8,830.00	₹ 3,389.00	₹ 9,905.00	₹ (3,379.00)	₹ (26,242.00)	₹ (37,006.00)	
Net Cash Flow	₹ 830.00	₹ (1,278.00)	₹ 88.00	₹ (5,706.00)	₹ (378.00)	₹ 1,971.00	₹ 13,141.00	₹ (4,289.00)	₹ (9,400.00)	₹ 15,455.00	
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Ratio Analysis

Ratio Analysis - TATA MOTORS LTD													
Years	Mar-15	Mar-16	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24	Trend	Mean	Median
Sales Growth		3.76%	-1.23%	8.10%	3.56%	-13.54%	-4.32%	11.47%	24.25%	26.58% —		6.52%	3.76%
EBITDA Growth		-2.15%	-22.94%	6.32%	-21.60%	-27.07%	79.50%	-23.44%	28.70%	87.13% _	~	11.61%	-2.15%
EBIT Growth		-19.98%	-55.67%	-29.86%	-189.71%	128.00%	-106.02%	-1564.91%	-65.31%	-781.41%		-298.32%	-65.31%
Net Profit Growth		3.18%	-69.54%	-79.01%	-355.28%	392.87%	-82.86%	619.52%	-70.90%	-757.61% —		-44.40%	-70.90%
Dividend Growth		0.00%	-100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	49.99% \		-5.56%	0.00%
Gross Margin	22.91%	24.73%	23.82%	21.65%	19.57%	19.42%	21.81%	19.81%	20.69%	28.01% -		22.24%	21.73%
EBITDA Margin	14.91%	14.06%	10.97%	10.79%	8.17%	6.89%	12.93%	8.88%	9.20%	13.60%	~~~	11.04%	10.88%
EBIT Margin	9.82%	7.94%	4.33%	3.40%	0.36%	-1.32%	3.50%	-0.04%	2.01%	7.37%		3.74%	3.45%
EBT Margin	7.98%	6.15%	2.76%	1.79%	-1.55%	-4.09%	0.26%	-3.39%	-0.95%	5.09%		1.41%	1.02%
Net Profit Margin	5.07%	5.04%	1.56%	0.30%	-0.74%	-4.24%	-0.76%	-4.91%	-1.15%	5.97%		0.61%	-0.22%
Sales Expenses % Sales	8.00%	10.67%	12.85%	10.86%	11.40%	12.53%	8.88%	10.93%	11.49%	14.42%		11.20%	11.17%
Depreciation % Sales	5.09%	6.12%	6.64%	7.39%	7.81%	8.21%	9.43%	8.92%	7.19%	6.23%		7.30%	7.29%
Operating Income % Sales	9.82%	7.94%	4.33%	3.40%	0.36%	-1.32%	3.50%	-0.04%	2.01%	7.37%		3.74%	3.45%
Return on Capital Employed	19.90%	14.62%	8.55%	5.37%	0.65%	-1.84%	4.43%	-0.06%	3.88%	16.79%		7.23%	4.90%
Retained Earnings %	100.00%	99.51%	100.00%	100.00%	0.00%	0.00%	0.00%	0.00%	0.00%	95.60%		49.51%	47.80%
Return on Equity %	23.72%	17.44%	7.22%	0.92%	-3.73%	-17.81%	-3.44%	-30.65%	-8.77%	30.78%		1.57%	-1.26%
Self Sustained Growth Rate	23.72%	17.36%	7.22%	0.92%	0.00%	0.00%	0.00%	0.00%	0.00%	29.42%		7.86%	0.46%
Interest Coverage Ratio	5.32x	4.44x	2.76x	2.12x	0.19x	-0.47x	1.08x	-0.01x	0.68x	3.23x		1.93x	1.60x
Debtor Turnover Ratio	20.92x	20.12x	19.16x	14.66x	15.89x	23.37x	19.70x	22.38x	21.98x	25.83x —		20.40x	20.52x
Creditor Turnover Ratio	2.45x	2.38x	1.98x	2.04x	2.17x	1.96x	1.73x	2.02x	2.23x	2.45x		2.14x	2.10x
Inventory Turnover	8.99x	8.36x	7.69x	6.92x	7.74x	6.97x	6.92x	7.90x	8.49x	9.16x		7.91x	7.82x
Fixed Asset Turnover	2.97x	2.55x	2.81x	2.40x	2.71x	2.05x	1.80x	2.01x	2.62x	3.00x	~	2.49x	2.58x
Capital Turnover Ratio	4.68x	3.46x	4.64x	3.06x	5.02x	4.20x	4.52x	6.25x	7.63x	5.16x \		4.86x	4.66x
(in days)													
Debtor Days	17	18	19	25	23	16	19	16	17	14 —		18	18
Payable Days	149	154	184	179	168	186	211	181	164	149 _		172	174
Inventory Days	41	44	47	53	47	52	53	46	43	40 —		47	47
Cash Conversion Cycle	-91	-92	-117	-101	-98	-118	-139	-118	-104	-95	<u> </u>	-107	-103
CFO/Sales	12.11%	14.36%	12.40%	5.98%	3.87%	12.14%	11.57%	1.27%	9.32%	17.18%	~~	10.02%	11.84%
CFO/Total Assets	13.43%	14.90%	12.27%	5.33%	3.82%	9.90%	8.46%	1.07%	9.64%	20.30% —	\	9.91%	9.77%
CFO/Total Debt	43.28%	56.53%	42.56%	19.59%	10.99%	25.40%	20.34%	2.41%	24.06%	70.15%	\	31.53%	24.73%

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Forecasting

TATA MOTORS LTD - Sales For	recasting
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TATA MOTORS LTD - EBITDA Forecasting

TATA MOTORS LTD - Earning per Share Forecasting

Year Weight Year Sales Sales Growth Year Weight Year EBITDA EBITDA Growth Year Weight Year Weight <th>.,,,,,</th> <th></th> <th>54.65 . 6.66</th> <th>astB</th> <th>.,,,,,</th> <th colspan="3">the rest and are a second</th> <th colspan="4">Transfer of the Earling per onare roles as ting</th>	.,,,,,		54.65 . 6.66	astB	.,,,,,	the rest and are a second			Transfer of the Earling per onare roles as ting			
2 2016A 2,73,045.6 3.76% 2 2016A 38,395.3 -2.15% 2 2016A 47.7 3.19% 3 2017A 2,69,692.5 -1.23% 3 2017A 29,588.7 -22.94% 3 2017A 14.5 -69.54% 4 2018A 2,91,550.5 8.10% 4 2018A 31,457.7 6.32% 4 2018A 3.0 -79.01% 5 2019A 3,01,938.4 3.56% 5 2019A 24,664.3 -21.60% 5 2019A -7.8 -355.28% 6 2020A 2,61,068.0 -13.54% 6 2020A 17,987.1 -27.07% 6 2020A -35.9 360.68% 7 2021A 2,49,794.8 -4.32% 7 2021A 32,287.4 79.50% 7 2021A -5.7 -84.06% 8 2022A 2,78,453.6 11.47% 8 2022A 24,720.1 -23.44% 8 2022A -41.1 619.43% 9 2023A 3,45,967.0 24.25% 9 2023A	Year Weight	Year	Sales	Sales Growth	Year Weight	Year	EBITDA	EBITDA Growth	Year Weight	Year	EPS	EPS Growth
3 2017A 2,69,692.5 -1.23% 3 2017A 29,588.7 -22.94% 3 2017A 14.5 -69.54% 4 2018A 2,91,550.5 8.10% 4 2018A 31,457.7 6.32% 4 2018A 3.0 -79.01% 5 2019A 3,01,938.4 3.56% 5 2019A 24,664.3 -21.60% 5 2019A -7.8 -355.28% 6 2020A 2,61,068.0 -13.54% 6 2020A 17,987.1 -27.07% 6 2020A -35.9 360.68% 7 2021A 2,49,794.8 -4.32% 7 2021A 32,287.4 79.50% 7 2021A -5.7 -84.06% 8 2022A 2,78,453.6 11.47% 8 2022A 24,720.1 -23.44% 8 2022A -41.1 619.43% 9 2023A 3,45,967.0 24.25% 9 2023A 31,815.8 28.70% 9 2023A -12.0 -757.14% 10 2024A 4,37,927.8 26.58% 10 2024A	1	2015A	2,63,159.0		1	2015A	39,238.7		1	2015A	46.2	
4 2018A 2,91,550.5 8.10% 4 2018A 31,457.7 6.32% 4 2018A 3.0 -79.01% 5 2019A 3,01,938.4 3.56% 5 2019A 24,664.3 -21.60% 5 2019A -7.8 -355.28% 6 2020A 2,61,068.0 -13.54% 6 2020A 17,987.1 -27.07% 6 2020A -35.9 360.68% 7 2021A 2,49,794.8 -4.32% 7 2021A 32,287.4 79.50% 7 2021A -5.7 -84.06% 8 2022A 2,78,453.6 11.47% 8 2022A 24,720.1 -23.44% 8 2022A -41.1 619.43% 9 2023A 3,45,967.0 24.25% 9 2023A 31,815.8 28.70% 9 2023A -12.0 -70.91% 10 2024A 4,37,927.8 26.58% 10 2024A 59,538.3 87.13% 10 2024A 78.6 -757.14% 11 2025E 3,62,627.6 -17.19% 11 2025E	2	2016A	2,73,045.6	3.76%	2	2016A	38,395.3	-2.15%	2	2016A	47.7	3.19%
5 2019A 3,01,938.4 3.56% 5 2019A 24,664.3 -21.60% 5 2019A -7.8 -355.28% 6 2020A 2,61,068.0 -13.54% 6 2020A 17,987.1 -27.07% 6 2020A -35.9 360.68% 7 2021A 2,49,794.8 -4.32% 7 2021A 32,287.4 79.50% 7 2021A -5.7 -84.06% 8 2022A 2,78,453.6 11.47% 8 2022A 24,720.1 -23.44% 8 2022A -41.1 619.43% 9 2023A 3,45,967.0 24.25% 9 2023A 31,815.8 28.70% 9 2023A -12.0 -70.91% 10 2024A 4,37,927.8 26.58% 10 2024A 59,538.3 87.13% 10 2024A 78.6 -757.14% 11 2025E 3,62,627.6 -17.19% 11 2025E 36,573.0 -38.57% 11 2025E -6.5 -108.29% 12 2026E 3,74,512.7 3.28% 12 2026	3	2017A	2,69,692.5	-1.23%	3	2017A	29,588.7	-22.94%	3	2017A	14.5	-69.54%
6 2020A 2,61,068.0 -13.54% 6 2020A 17,987.1 -27.07% 6 2020A -35.9 360.68% 7 2021A 2,49,794.8 -4.32% 7 2021A 32,287.4 79.50% 7 2021A -5.7 -84.06% 8 2022A 2,78,453.6 11.47% 8 2022A 24,720.1 -23.44% 8 2022A -41.1 619.43% 9 2023A 3,45,967.0 24.25% 9 2023A 31,815.8 28.70% 9 2023A -12.0 -70.91% 10 2024A 4,37,927.8 26.58% 10 2024A 59,538.3 87.13% 10 2024A 78.6 -757.14% 11 2025E 3,62,627.6 -17.19% 11 2025E 36,573.0 -38.57% 11 2025E -6.5 -108.29% 12 2026E 3,74,512.7 3.28% 12 2026E 37,228.2 1.79% 12 2026E -9.3 42.63%	4	2018A	2,91,550.5	8.10%	4	2018A	31,457.7	6.32%	4	2018A	3.0	-79.01%
7 2021A 2,49,794.8 -4.32% 7 2021A 32,287.4 79.50% 7 2021A -5.7 -84.06% 8 2022A 2,78,453.6 11.47% 8 2022A 24,720.1 -23.44% 8 2022A -41.1 619.43% 9 2023A 3,45,967.0 24.25% 9 2023A 31,815.8 28.70% 9 2023A -12.0 -70.91% 10 2024A 4,37,927.8 26.58% 10 2024A 59,538.3 87.13% 10 2024A 78.6 -757.14% 11 2025E 3,62,627.6 -17.19% 11 2025E 36,573.0 -38.57% 11 2025E -6.5 -108.29% 12 2026E 3,74,512.7 3.28% 12 2026E 37,228.2 1.79% 12 2026E -9.3 42.63%	5	2019A	3,01,938.4	3.56%	5	2019A	24,664.3	-21.60%	5	2019A	-7.8	-355.28%
8 2022A 2,78,453.6 11.47% 8 2022A 24,720.1 -23.44% 8 2022A -41.1 619.43% 9 2023A 3,45,967.0 24.25% 9 2023A 31,815.8 28.70% 9 2023A -12.0 -70.91% 10 2024A 4,37,927.8 26.58% 10 2024A 59,538.3 87.13% 10 2024A 78.6 -757.14% 11 2025E 3,62,627.6 -17.19% 11 2025E 36,573.0 -38.57% 11 2025E -6.5 -108.29% 12 2026E 3,74,512.7 3.28% 12 2026E 37,228.2 1.79% 12 2026E -9.3 42.63%	6	2020A	2,61,068.0	-13.54%	6	2020A	17,987.1	-27.07%	6	2020A	-35.9	360.68%
9 2023A 3,45,967.0 24.25% 9 2023A 31,815.8 28.70% 9 2023A -12.0 -70.91% 10 2024A 4,37,927.8 26.58% 10 2024A 59,538.3 87.13% 10 2024A 78.6 -757.14% 11 2025E 3,62,627.6 -17.19% 11 2025E 36,573.0 -38.57% 11 2025E -6.5 -108.29% 12 2026E 3,74,512.7 3.28% 12 2026E 37,228.2 1.79% 12 2026E -9.3 42.63%	7	2021A	2,49,794.8	-4.32%	7	2021A	32,287.4	79.50%	7	2021A	-5.7	-84.06%
10 2024A 4,37,927.8 26.58% 10 2024A 59,538.3 87.13% 10 2024A 78.6 -757.14% 11 2025E 3,62,627.6 -17.19% 11 2025E 36,573.0 -38.57% 11 2025E -6.5 -108.29% 12 2026E 3,74,512.7 3.28% 12 2026E 37,228.2 1.79% 12 2026E -9.3 42.63%	8	2022A	2,78,453.6	11.47%	8	2022A	24,720.1	-23.44%	8	2022A	-41.1	619.43%
11 2025E 3,62,627.6 -17.19% 11 2025E 36,573.0 -38.57% 11 2025E -6.5 -108.29% 12 2026E 37,228.2 1.79% 12 2026E -9.3 42.63%	9	2023A	3,45,967.0	24.25%	9	2023A	31,815.8	28.70%	9	2023A	-12.0	-70.91%
12 2026E 3,74,512.7 3.28% 12 2026E 37,228.2 1.79% 12 2026E -9.3 42.63%	10	2024A	4,37,927.8	26.58%	10	2024A	59,538.3	87.13%	10	2024A	78.6	-757.14%
	11	2025E	3,62,627.6	-17.19%	11	2025E	36,573.0	-38.57%	11	2025E	-6.5	-108.29%
13 2027F 3.86.397.7 3.17% 13 2027F 37.883.4 1.76% 13 2027F -12.1 29.89%	12	2026E	3,74,512.7	3.28%	12	2026E	37,228.2	1.79%	12	2026E	-9.3	42.63%
15 20272 3,00,357.7 3.1770 15 20272 17.7070 15	13	2027E	3,86,397.7	3.17%	13	2027E	37,883.4	1.76%	13	2027E	-12.1	29.89%
14 2028E 3,98,282.8 3.08% 14 2028E 38,538.6 1.73% 14 2028E -14.9 23.01%	14	2028E	3,98,282.8	3.08%	14	2028E	38,538.6	1.73%	14	2028E	-14.9	23.01%
15 2029E 4,10,167.9 2.98% 15 2029E 39,193.9 1.70% 15 2029E -17.6 18.71%	15	2029E	4,10,167.9	2.98%	15	2029E	39,193.9	1.70%	15	2029E	-17.6	18.71%



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Beta Drifting

Regression Beta - 2 Years Weekly

Tata N	lotors Weekly Re	eturns	Nifty Ret	urns	Beta Drifting	
Data	Clasina Briss	Datum	Data	Datum	Louised Daw Data	1 11
Date 27-06-2022	Closing Price 410.2	Return	Date 27-06-2022	Return	_ Levered Raw Beta Beta Weight	1.11 75.00%
04-07-2022	438.8	6.99%	04-07-2022	2.97%	beta weight	73.00%
11-07-2022	437.5	-0.31%	11-07-2022	-1.06%	Market Beta	1.00
18-07-2022	452.1	3.34%	18-07-2022	4.18%	Market Beta Weight	25.00%
25-07-2022	446.8	-1.17%	25-07-2022	2.62%	Warket Beta Weight	23.0070
01-08-2022	462.4	3.48%	01-08-2022	1.39%	Adjusted Beta	1.09
08-08-2022	474.6	2.64%	08-08-2022	1.73%	, tajastoa 2 ota	
15-08-2022	468.1	-1.37%	15-08-2022	0.34%		
22-08-2022	462.2	-1.26%	22-08-2022	-1.12%		
29-08-2022	458.9	-0.71%	29-08-2022	-0.11%		
05-09-2022	443.1	-3.43%	05-09-2022	1.68%		
12-09-2022	429.8	-3.01%	12-09-2022	-1.70%		
19-09-2022	420.5	-2.17%	19-09-2022	-1.16%		
26-09-2022	402.1	-4.37%	26-09-2022	-1.34%		
03-10-2022	409.6	1.87%	03-10-2022	1.29%		
10-10-2022	393.8	-3.86%	10-10-2022	-0.74%		
17-10-2022	395.6	0.45%	17-10-2022	2.27%		
24-10-2022	407.4	2.98%	24-10-2022	1.20%		
31-10-2022	422.7	3.77%	31-10-2022	1.86%		
07-11-2022	420.9	-0.43%	07-11-2022	1.28%		
14-11-2022	421.2	0.07%	14-11-2022	-0.23%		
21-11-2022	430.5	2.22%	21-11-2022	1.12%		
28-11-2022	432.7	0.51%	28-11-2022	0.99%		
05-12-2022	410.7	-5.08%	05-12-2022	-1.07%		
12-12-2022	419.0	2.01%	12-12-2022	-1.23%		
19-12-2022	376.0	-10.26%	19-12-2022	-2.53%		
26-12-2022	385.6	2.54%	26-12-2022	1.68%		
02-01-2023	379.6	-1.53%	02-01-2023	-1.36%		
09-01-2023	409.0	7.72%	09-01-2023	0.54%		
16-01-2023	400.7	-2.03%	16-01-2023	0.40%		
23-01-2023	442.8	10.53%	23-01-2023	-2.35%		
30-01-2023	442.7	-0.03%	30-01-2023	1.42%		
06-02-2023	443.1	0.09%	06-02-2023	0.01%		
13-02-2023	437.2	-1.33%	13-02-2023	0.49%		
20-02-2023	425.1	-2.76%	20-02-2023	-2.67%		
27-02-2023	425.4	0.06%	27-02-2023	0.74%		
06-03-2023	433.2	1.83%	06-03-2023	-1.03%		
13-03-2023	416.4	-3.87%	13-03-2023	-1.80%		

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Weighted Average Cost of Capital

All figures are in INR unless stated otherwise

Peer Comps

				Debt /	[Debt /	Levered	Unlevered
Country	Total Debt	Total Equity	Tax Rate ¹	Equity	(Capital	Beta ²	Beta ³
India	107262.5	361144.3	30.00%		29.70%	22.90%	0.92	0.76
India	40802.2	71325.8	30.00%	Š	57.21%	36.39%	0.74	0.53
India	120.8	14677.3	30.00%	S	0.82%	0.82%	0.59	0.59
India	524.5	11875.2	30.00%	S	4.42%	4.23%	0.67	0.65
India	421.3	3060.6	30.00%	S	13.76%	12.10%	0.80	0.73
		Average	30.00%)	21.18%	15.29%	0.74	0.65
		Median	30.00%	,)	13.76%	12.10%	0.74	0.65
	India India India India	India 107262.5 India 40802.2 India 120.8 India 524.5	India 107262.5 361144.3 India 40802.2 71325.8 India 120.8 14677.3 India 524.5 11875.2 India 421.3 3060.6	India 107262.5 361144.3 30.00% India 40802.2 71325.8 30.00% India 120.8 14677.3 30.00% India 524.5 11875.2 30.00% India 421.3 3060.6 30.00% Average 30.00%	Country Total Debt Total Equity Tax Rate 1 Equity India 107262.5 361144.3 30.00% India 40802.2 71325.8 30.00% India 120.8 14677.3 30.00% India 524.5 11875.2 30.00% India 421.3 3060.6 30.00%	Country Total Debt Total Equity Tax Rate 1 Equity India 107262.5 361144.3 30.00% 29.70% India 40802.2 71325.8 30.00% 57.21% India 120.8 14677.3 30.00% 0.82% India 524.5 11875.2 30.00% 4.42% India 421.3 3060.6 30.00% 13.76%	Country Total Debt Total Equity Tax Rate 1 Equity Capital India 107262.5 361144.3 30.00% 29.70% 22.90% India 40802.2 71325.8 30.00% 57.21% 36.39% India 120.8 14677.3 30.00% 0.82% 0.82% India 524.5 11875.2 30.00% 4.42% 4.23% India 421.3 3060.6 30.00% 13.76% 12.10% Average 30.00% 21.18% 15.29%	Country Total Debt Total Equity Tax Rate 1 Equity Capital Beta 2 India 107262.5 361144.3 30.00% 29.70% 22.90% 0.92 India 40802.2 71325.8 30.00% 57.21% 36.39% 0.74 India 120.8 14677.3 30.00% 0.82% 0.82% 0.59 India 524.5 11875.2 30.00% 4.42% 4.23% 0.67 India 421.3 3060.6 30.00% 13.76% 12.10% 0.80 Average 30.00% 21.18% 15.29% 0.74

Cost of Debt		Cost of Equity	
Pre-Tax Cost of Debt	2.08%	Risk Free Rate	6.95%
Tax Rate	30.00%	Equity Risk Premium	8.66%
Post-Tax Cost of Debt	1.46%	Levered Beta ⁴	0.73
		Cost of Equity	13.29%

Capital Structure	Levered Beta
Capital Structure	Levereu bela

		Current	Target	Comps Median Unlevered Beta	0.65
Total Debt	107262.5	22.90%	15.29%	Target Debt/ Equity	18.05%
Market Capitalisation	361144.3	77.10%	84.71%	Tax Rate	30.00%
Total Capital	468406.8	100.00%	100.00%	Levered Beta	0.73
Debt/ Equity		29.70%	18.05%	Weighted Average Cost of Capital	
Notes				Cost of Equity	13.29%
1. Tax Rate considered as Mar	ginal Tax rate for the	country		Equity Weight	84.71%
2. Levered beta is based on 5 y	vear monthly data				
3. Unlevered beta= Levered Be	eta/1+(1-Tax rate)*D	ebt by Equity		Cost of Debt	1.46%
4. Levered beta= Unlevered Be	eta* 1+(1-Tax rate)*D	ebt by Equity		Debt Weight	15.29%
				WACC	11.48%

NSE: TATAMOTORS | BSE: 500570



Common Size Statement

Common Size Income Statement - TATA MOTORS LTD										
Particulars	Mar-15	Mar-16	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
Sales	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%
Raw Material Cost	62.03%	60.84%	64.26%	64.45%	64.34%	63.16%	61.49%	64.39%	66.84%	62.64%
Change in Inventory	1.27%	1.01%	2.74%	0.70%	-0.68%	-0.85%	-1.88%	-0.57%	1.38%	0.36%
Power and Fuel	0.43%	0.42%	0.43%	0.45%	0.53%	0.48%	0.45%	0.78%	0.73%	0.00%
Other Mfr. Exp	6.15%	4.43%	3.73%	3.76%	3.87%	4.42%	3.31%	3.39%	3.40%	0.00%
Employee Cost	9.74%	10.58%	10.51%	10.39%	11.01%	11.66%	11.07%	11.06%	9.73%	9.70%
Selling and admin	8.97%	8.05%	11.14%	10.63%	10.84%	11.20%	9.21%	10.49%	10.07%	0.00%
Other Expenses	-0.97%	2.62%	1.71%	0.23%	0.57%	1.32%	-0.33%	0.44%	1.42%	14.42%
Other Income	0.27%	-0.98%	0.69%	2.03%	-8.84%	0.04%	-4.45%	0.87%	1.83%	1.30%
Depreciation	5.09%	6.12%	6.64%	7.39%	7.81%	8.21%	9.43%	8.92%	7.19%	6.23%
Interest	1.85%	1.79%	1.57%	1.61%	1.91%	2.77%	3.24%	3.34%	2.96%	2.28%
Profit before tax	8.25%	5.17%	3.45%	3.83%	-10.39%	-4.05%	-4.19%	-2.52%	0.88%	6.38%
Tax	2.90%	1.11%	1.21%	1.49%	-0.81%	0.15%	1.02%	1.52%	0.20%	-0.88%
Net profit	5.31%	4.24%	2.76%	3.08%	-9.55%	-4.62%	-5.38%	-4.11%	0.70%	7.17%
Dividend Amount	0.00%	0.02%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.22%	0.26%
		Commo	on Siza Bal	ance Shee	+ - TATA M	OTORS LT	<u> </u>			
		Commi	JII SIZE Dai	ance since	L-IAIAIV	OTONS EI				
Particulars	Mar-15	Mar-16	Mar-17	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
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	0.27%	0.26%	0.25%	0.21%	0.22%	0.22%	0.22%	0.23%	0.23%	0.21%
Reserves	23.44%	29.74%	21.05%	28.96%	19.46%	19.21%	15.95%	13.31%	13.31%	22.70%
Borrowings	31.02%	26.35%								28.94%
Dollowings	31.02/0			27 19%	34 73%	38 97%	41 61%	44 51%	40107%	
Other Liabilities	45 27%		28.84% 49.86%	27.19% 43.65%	34.73% 45 58%	38.97% 41.60%	41.61% 42.21%	44.51% 41 95%	40.07% 46.39%	
Other Liabilities	45.27%	43.65%	49.86%	27.19% 43.65%	34.73% 45.58%	38.97% 41.60%	41.61% 42.21%	41.95%	46.39%	48.15%
Other Liabilities Total Assets	45.27% 100.00%									
		43.65%	49.86%	43.65%	45.58%	41.60%	42.21%	41.95%	46.39%	48.15%
Total Assets	100.00%	43.65% 100.00%	49.86% 100.00%	43.65% 100.00%	45.58% 100.00%	41.60% 100.00%	42.21% 100.00%	41.95% 100.00%	46.39% 100.00%	48.15% 100.00%
Total Assets Net Block	100.00% 37.28%	43.65% 100.00% 40.74%	49.86% 100.00% 35.20%	43.65% 100.00% 37.11%	45.58% 100.00% 36.39%	41.60% 100.00% 39.70%	42.21% 100.00% 40.61%	41.95% 100.00% 42.20%	46.39% 100.00% 39.47%	48.15% 100.00% 39.40%
Total Assets Net Block Capital Work in Progress	100.00% 37.28% 12.07%	43.65% 100.00% 40.74% 9.85%	49.86% 100.00% 35.20% 12.36%	43.65% 100.00% 37.11% 12.24%	45.58% 100.00% 36.39% 10.43%	41.60% 100.00% 39.70% 11.13%	42.21% 100.00% 40.61% 6.14%	41.95% 100.00% 42.20% 3.12%	46.39% 100.00% 39.47% 4.27%	48.15% 100.00% 39.40% 2.95%
Total Assets Net Block Capital Work in Progress Investments	100.00% 37.28% 12.07% 6.46%	43.65% 100.00% 40.74% 9.85% 9.03%	49.86% 100.00% 35.20% 12.36% 7.46%	43.65% 100.00% 37.11% 12.24% 6.36%	45.58% 100.00% 36.39% 10.43% 5.16%	41.60% 100.00% 39.70% 11.13% 5.09%	42.21% 100.00% 40.61% 6.14% 7.21%	41.95% 100.00% 42.20% 3.12% 8.93%	46.39% 100.00% 39.47% 4.27% 7.88%	48.15% 100.00% 39.40% 2.95% 6.20%
Total Assets Net Block Capital Work in Progress Investments Other Assets	100.00% 37.28% 12.07% 6.46% 13.02%	43.65% 100.00% 40.74% 9.85% 9.03% 11.24%	49.86% 100.00% 35.20% 12.36% 7.46% 13.71%	43.65% 100.00% 37.11% 12.24% 6.36% 14.76%	45.58% 100.00% 36.39% 10.43% 5.16% 18.37%	41.60% 100.00% 39.70% 11.13% 5.09% 18.36%	42.21% 100.00% 40.61% 6.14% 7.21% 18.07%	41.95% 100.00% 42.20% 3.12% 8.93% 18.91%	46.39% 100.00% 39.47% 4.27% 7.88% 20.45%	48.15% 100.00% 39.40% 2.95% 6.20% 21.63%

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4 Year Average

4 Year Median

28.66%

27.37%

Intrinsic Growth

Calculation of ROIC	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
Current Assets					
Current Assets	27.457.0	26.090.0	25 240 0	40.755.0	47 700 0
Inventories	37,457.0 11,173.0	36,089.0	35,240.0	40,755.0	47,788.0
Trade receivables Short term loans		12,679.0	12,442.0	15,738.0	16,952.0
	39.0	142.0	47.0	119.0	168.0
Other asset items	58,746.0	61,576.0	62,177.0	68,313.0	78,851.0
Total Current Assets	1,07,415.0	1,10,486.0	1,09,906.0	1,24,925.0	1,43,759.0
Current Liabilities					
Trade Payables	66,398.0	76,040.0	69,750.0	79,252.0	93,979.0
Advance from Customers	-	-	-		
Other liability items	65,969.0	66,579.0	64,030.0	68,710.0	75,186.0
Total Current Liabilities	1,32,367.0	1,42,619.0	1,33,780.0	1,47,962.0	1,69,165.0
Net Working Capital	(24,952.0)	(32,133.0)	(23,874.0)	(23,037.0)	(25,406.0)
Non Current Assets					
Land	7,675.0	7,819.0	7,760.0	8,045.0	7,930.0
Building	32,665.0	35,537.0	36,466.0	38,674.0	40,584.0
Plant Machinery	1,24,158.0	1,38,868.0	1,48,585.0	1,53,672.0	1,51,878.0
Equipments	-	-			
Computers	3,054.0	3,172.0	3,383.0	3,499.0	3,667.0
Furniture n fittings	1,890.0	1,956.0	1,984.0	2,084.0	2,029.0
Vehicles	601.0	845.0	725.0	788.0	956.0
Intangible Assets	91,157.0	1,14,809.0	1,14,323.0	1,12,538.0	1,16,714.0
Other fixed assets	9,380.0	10,686.0	10,870.0	11,841.0	10,724.0
Gross Block	2,70,579.0	3,13,692.0	3,24,096.0	3,31,141.0	3,34,482.0
Accumulated Depreciation	(1,43,471.0)	(1,74,985.0)	(1,85,241.0)	(1,99,062.0)	(2,13,197.0)
Net Non Current Assets	1,27,108.0	1,38,707.0	1,38,855.0	1,32,079.0	1,21,285.0
Invested Capital	1,02,156.0	1,06,574.0	1,14,981.0	1,09,042.0	95,879.0
EBIT	(3,438.4)	8,740.7	(115.6)	6,955.4	32,268.2
ROIC	-3.37%	8.20%	-0.10%	6.38%	33.66%
Calculation of Reinvestment Rate	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
Net Capex	29,531.0	19,854.0	14,938.0	18,945.0	31,183.0
Change in Working Capital		(7,181.0)	8,259.0	837.0	(2,369.0)
EBIT	(3,438.4)	8,740.7	(115.6)	6,955.4	32,268.2
Marginal Tax Rate	30.00%	30.00%	30.00%	30.00%	30.00%
EBIT(1-T)	(2,406.9)	6,118.5	(80.9)	4,868.8	22,587.7
LBH(I I)	(2,400.3)	0,110.5	(00.5)	4,000.0	22,307.7
Reinvestment		12,673.0	23,197.0	19,782.0	28,814.0
Reinvestment Rate		207.13%	-28666.58%	406.30%	127.56%
				4 Year Average	-6981.40%
				4 Year Median	167.35%
Calculation of Growth Rate	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
		227 : 22:	20222 ==::	100.000	
Reinvestment Rate		207.13%	-28666.58%	406.30%	127.56%
ROIC		8.20%	-0.10%	6.38%	33.66%
Intrinsic Growth		16.99%	28.82%	25.92%	42.93%



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FCFF

Calculation of PV of FCFF	Mar-24A	Mar-25F	Mar-26F	Mar-27F	Mar-28F	Mar-29F
EBIT	37940.9	48324.8	61550.7	78396.4	99852.5	127180.9
Tax Rate	30.00%	30.00%	30.00%	30.00%	30.00%	30.00%
EBIT(1-T)	26558.6	33827.4	43085.5	54877.5	69896.8	89026.6
Less: Reinvestment Rate	167.35%	146.88%	126.42%	105.96%	85.50%	85.50%
Free Cash Flow to Firm (FCFF)	-17886.0	-15859.6	-11384.3	-3271.4	10135.0	12908.9
Mid Year Convention		0.5	1.5	2.5	3.5	4.5
Discounting Factor		0.947	0.850	0.762	0.684	0.613
PV of FCFF		-15020.8	-9671.9	-2493.1	6928.4	7915.9

Expected Growth 27.37%
Terminal Growth 6.50%
WACC 11.48%

Calculation of Terminal Value	
FCFF (n+1)	16441.9
WACC	11.48%
Terminal Growth Rate	6.50%
Terminal Value	330157.0

Calculation of Equity Value per Shar	e
PV of FCFF	-12341.491
PV of Terminal Value	202457.5
Value of Operating Assets	190116.1
Add: Cash	45806.7
Less: Debt	98501.0
Value of Equity	137421.7
No. of Shares	366.45
Equity Value per Share	375.0
Share Price	990
Discount/Premium	2.64x

Sensitivity Analysis							
	10.00%	11.48%	12.00%	14.00%			
4.00%	1,55,698.7	1,22,450.1	1,13,688.7	88,482.6			
5.00%	1,89,306.7	1,43,251.3	1,31,693.0	99,685.3			
6.50%	2,75,727.4	1,90,116.6	1,70,975.1	1,22,090.7			
7.00%	3,23,738.9	2,12,712.3	1,89,306.7	1,31,693.0			
8.00%	4,91,779.1	2,77,383.0	2,39,718.8	1,55,698.7			

Sensitivity Analysis								
	10.00%	11.48%	12.00%	14.00%				
4.00%	281.1	190.4	166.4	97.7				
5.00%	372.8	247.1	215.6	128.2				
6.50%	608.6	375.0	322.8	189.4				
7.00%	739.7	436.7	372.8	215.6				
8.00%	1,198.2	613.2	510.4	281.1				

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Comps Valuation

Amount in Crores

Comparable Companies Valuation

		Market Data			Financials			Valuation				
		Share	Shares	Equity		Enterprise						
Company	Ticker	Price	Outstanding	Value	Net Debt	Value	Revenue	EBITDA	Net Income	EV/Revenue	EV/EBITDA	P/E
Tata Motors	TATAMOTORS	990	332.40	3,28,993	61,456	3,90,449	4,37,928	60,912	31,807	0.9x	6.4x	12.3x
Ashok Leyland	ASHOKLEY	242	293.64	71,029	33,722	1,04,751	45,791	8,101	2,696	2.3x	12.9x	38.8x
Olectra Greentec	OLECTRAG	1,779	8.21	14,608	-54	14,554	1,154	186	79	12.6x	78.4x	185.0x
Force Motors	FORCEMOT	8,965	1.32	11,834	76	11,910	6,992	936	388	1.7x	12.7x	30.7x
SML ISUZU	SMLISUZU	2,099	1.45	3,043	373	3,415	2,196	185	108	1.6x	18.5x	31.7x
High										12.6x	78.4x	185.0x
75th Percentile										2.3x	18.5x	38.8x
Average										3.8x	25.8x	59.7x
Median										1.7x	12.9x	31.7x
25th Percentile										1.6x	12.7x	30.7x
Low										0.9x	6.4x	12.3x

Tata Motors Ltd. Comparable Valuation	EV/Revenue	EV/EBITDA	P/E
Implied Enterprise Value	7,45,946	7,87,598	10,68,435
Net Debt	61,456	61,456	61,456
Implied Market Value	6,84,490	7,26,142	10,06,979
Shares Outstanding	332.40	332.40	332.40
Implied Value per Share	2059.2	2184.5	3029.4

Source: The Valuation School, Screener.in Undervalued Undervalued Undervalued

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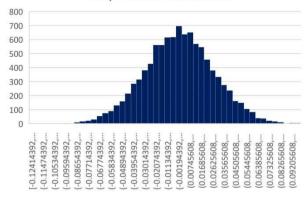
VAR & Monte Carlo Simulation

D. L.	Ad' Char	D. L	Control Date on a	De all'antina	C'an late d Balance
Date	Adj Close	Return	Sorted Returns	Replication	Simulated Returns
04-02-1993	20.85	-0.958614778	0.672413832	1	-0.014872658
13-10-2021	503.77	4.435924772	0.204467068	2	0.002239508
30-04-2020	92.67	0.405382897	0.193218178	3	-0.002891984
20-05-2009	65.94	-0.615239059	0.188256666	4	-0.026234549
29-10-2019	171.39	0.167569417	0.167569417	5	0.013091547
27-10-2019	146.79	9.04328445	0.164367369	6	-0.017377592
19-02-1991	14.62	-0.954328121	0.152542473	7	0.04840412
02-02-2021	320.01	5.36274016	0.151645161	8	0.015344442
08-04-1992	50.29	0.733749661	0.147058741	9	0.019549503
29-10-2008	29.01	-0.46963157	0.141428578	10	-0.010026901
18-05-2009	54.70	0.996025124	0.135909535	11	-8.32695E-05
04-12-2008	27.40	-0.258777355	0.132832994	12	-0.032463908
02-04-2009	36.97	-0.664116109	0.131388807	13	0.013702381
05-06-2020	110.07	2.183568777	0.124365478	14	0.028592993
03-11-2008	34.57	-0.32413992	0.123267472	15	-0.031267017
22-04-1992	51.15	0.178217561	0.122641252	16	-0.00825037
24-02-1994	43.42	-0.704577978	0.122222007	17	-0.053855816
02-03-2010	146.97	-0.607229006	0.122117351	18	-0.0038178
07-10-2021	374.18	27.12633407	0.120368866	19	-0.056147309
03-11-2000	13.30	-0.739669573	0.118293482	20	0.000268478
15-04-2009	51.10	1.584302296	0.116398965	21	0.038885295
29-07-1993	19.77	-0.909826346	0.115151273	22	-0.022100349
11-01-2021	219.29	1.103842219	0.113550327	23	0.055127244
07-09-2009	104.23	1.277106154	0.113515618	24	0.002306353
13-04-2009	45.77	-0.749342848	0.111772631	25	0.014610594
05-02-2020	182.62	0.3172043	0.108931845	26	0.001517284
17-10-2019	138.64	2.505586117	0.108462456	27	0.049876643
24-03-1992	39.55	2.320140318	0.108433353	28	-0.054472988
24-07-2001	11.91	-0.841641527	0.108011578	29	-0.053535172
28-07-2009	75.22	1.562461285	0.107591617	30	-0.016733555
13-03-2009	29.35	0.225841249	0.107155075	31	0.003684906
11-06-2002	23.95	1.088530545	0.106609472	32	-0.022863073
14-03-2001	11.47	-0.843272324	0.10526331	33	0.015771947
23-01-2004	73.16	-0.013268595	0.104191345	34	-0.031751089
09-04-2020	74.14	-0.444733977	0.103550367	35	-0.017650282
11-09-2019	133.52	3.177853345	0.102133054	36	0.032125838
02-01-2009	31.96	1.460645651	0.101345084	37	0.075236207
22-10-2001	12.99	-0.96204008	0.100325605	38	0.01008291
10-09-2013	342.15	0.83762313	0.100062904	39	-0.020852991
01-04-2019	186.19	0.079827113	0.0985049	40	0.029688899
18-11-2020	172.43	-0.447879423	0.098101315	41	-0.053856396
14-08-2013	312.30	8.780276679	0.097129131	42	-0.021899153

Calculation of Value at Risk - Tata	Motors Ltd. (Simulation)
Historical Approach	
Mean	0.09%
Std Deviation	2.89%
Min	-40.51%
Max	67.24%
CMP	992.45
Monte Carlo Simulation	
Mean	0.09%
Std Deviation	2.89%
Min	-12.41%
Max	10.14%
CMP	992.45

Percentile	Confidence	VAR %	Stock Price	VAR (INR)
5.0%	95.0%	-4.70%	1039.1	-46.7
1.0%	99.0%	-6.58%	1057.8	-65.3
0.5%	99.5%	-7.37%	1065.6	-73.2
10%	90.0%	-3.61%	1028.3	-35.9

Daily Returns Distribution





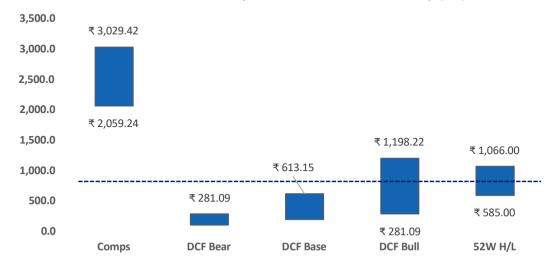
NSE: TATAMOTORS | BSE: 500570

Football Field Analysis

Football Field Analysis - Data

	OpenLow	Low	OpenHigh	High
Comps	2059.2	2059.2	3029.4	3029.4
DCF Bear	97.7	97.7	281.1	281.1
DCF Base	190.4	190.4	613.2	613.2
DCF Bull	281.1	281.1	1198.2	1198.2
52W H/L	585.0	585.0	1066.0	1066.0

Football Field Analysis - Valuation Summary (Rs)



(TATAMOTORS | BSE Code: 500570)

INR 922.85

52 Week (High - INR 1066 & Low - INR 585)



About the Company

Tata Motors Group is a leading global automobile manufacturer. Part of the illustrious multi-national conglomerate, the Tata group, it offers a wide and diverse portfolio of cars, sports utility vehicles, trucks, buses and defence vehicles to the world.

It has operations in India, the UK, South Korea, South Africa, China, Brazil, Austria and Slovakia through a strong global network of subsidiaries, associate companies and Joint Ventures (JVs), including Jaguar Land Rover in the UK and Tata Daewoo in South Korea.

Financial Summary



Recent Updates

- Tata Motors PV sales suffered YoY decline in June 24 Total sales stood at 2.29 lakh units in Q1 FY25.
- Auto giant Tata Motors announced a consolidated net profit of Rs 17,529 crore for the quarter ending March 31, 2024, making a significant 46% increase from the net profit of Rs 12.033 crore reported in the corresponding period last year. The company surpassed Street estimates of Rs 6,225 crore.
- PAT likely to jump 33% YoY to Rs 7,640 crore on higher volume.
- Analysts anticipate robust results for Tata Motors, propelled by the advantages of operating leverage, favourable commodity trends and strong volume growth across its various segments.
- Tata Motors drives Tata group companies' finances to new high in FY24 recording the consolidated net profit to be up more than 1200% to Rs 32.203 crore from Rs 2,351 crore in FY23.
- June marked the third consecutive month of a YoY drop in sales of battery electric vahicles for market leader for Tata Motors, which reported sales of 4,657 EVs last month.

Dupont Analysis - Return on Equity & Return on Asset

Return on Equity (ROE)									
	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24		
Net Profit	8,988.9	-28,826.2	-12,070.9	-13,451.4	-11,441.5	2,414.3	31,399.1		
Average Shareholder Equity	76,744.9	77,803.7	61,195.3	58,728.9	49,904.0	44,941.5	65,119.9		
Return on Equity	11.71%	-37.05%	-19.73%	-22.90%	-22.93%	5.37%	48.22%		
ROE - Dupont Equation									
	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24		
Net Profit	8,988.9	-28,826.2	-12,070.9	-13,451.4	-11,441.5	2,414.3	31,399.1		
Revenue	2,91,550.5	3,01,938.4	2,61,068.0	2,49,794.8	2,78,453.6	3,45,967.0	4,37,927.8		
Net Profit Margin (A)	3.08%	-9.55%	-4.62%	-5.38%	-4.11%	0.70%	7.17%		
Revenue	2,91,550.5	3,01,938.4				3,45,967.0	4,37,927.8		
Average Total Asset	2,99,886.1	3,16,447.7	3,12,941.4	3,30,874.7	3,35,315.7	3,31,868.0	3,52,669.2		
Asset Turnover Ratio (B)	1.0x	1.0x	0.8x	0.8x	0.8x	1.0x	1.2x		
Average Total Asset	2,99,886.1	, ,		3,30,874.7			3,52,669.2		
Average Shareholder Equity	76,744.9	77,803.7	61,195.3	58,728.9	49,904.0	44,941.5	65,119.9		
Equity Multiplier (C)	3.91x	4.07x	5.11x	5.63x	6.72x	7.38x	5.42x		
Return on Equity (A*B*C)	11.71%	-37.05%	-19.73%	-22.90%	-22.93%	5.37%	48.22%		
		Data and	A b						
	N4== 40	Return on		May 24	May 22	May 22	Man 24		
Net Duefit	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24		
Net Profit	8,988.9	-28,826.2	-12,070.9	-13,451.4	-11,441.5	2,414.3	31,399.1		
Average Total Asset		3,16,447.7		3,30,874.7 -4.07 %			3,52,669.2		
Return on Asset	3.00%	-9.11%	-3.86%	-4.07%	-3.41%	0.73%	8.90%		
	D/	DA - Dupont	Fauation						
	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24		
Net Profit	8,988.9	-28,826.2	-12,070.9	-13,451.4	-11,441.5	2,414.3	31,399.1		
Revenue	2,91,550.5	,	2,61,068.0	2,49,794.8	2,78,453.6	3,45,967.0	4,37,927.8		
Net Profit Margin (A)	3.08%	-9.55%	-4.62%	-5.38%	-4.11%	0.70%	7.17%		
	3.00/0	3.33/0	4.02/0	3.30/0	7.11/0	3.70/0	7.17/0		
Revenue	2,91,550.5	3.01.938 4	2,61,068.0	2.49.794 8	2.78.453 6	3.45.967.0	4,37,927.8		
Average Total Asset		3,16,447.7					3,52,669.2		
Asset Turnover Ratio (B)	1.0x	1.0x	0.8x	0.8x	0.8x	1.0x	1.2x		
	1.07	1.07	0.01	0.01	0.07	1.07	X		

Dupont Summary

- ROE of Tata Motors has been negative throughout the COVID pandemic centering around -20% for the next two years till FY22 which now has shown a tremendous increase to 48.22% as of March 2024.
- The company faced a significant decrease in net margins but was able to increase the same gradually post the COVID pandemic from -9.55% in FY19 to 7.17% in FY24. Asset efficiency of the company is constantly maintained throughout the period.
- Tata Motors had a negative ROA of -9.11% in FY19 which has been increased gradually to 8.90% as of FY24. While the asset efficiency remains constant, the reason for increase in ROA is increased net margin of the company.

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(TATAMOTORS | BSE Code: 500570)

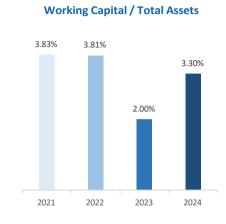
INR 922.85

52 Week (High - INR 1066 & Low - INR 585)

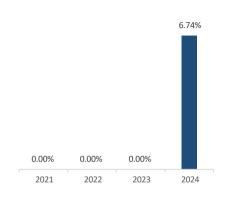


Altman's Z Score Analysis

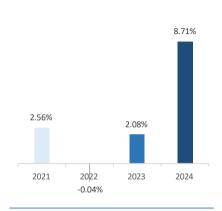
Financial Summary



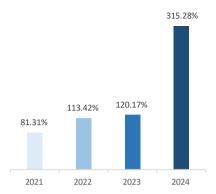




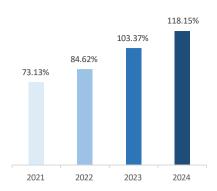
EBIT / Total Assets



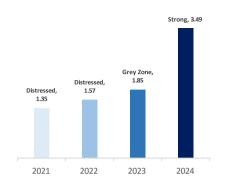
Market Cap / Long Term Liabilities



Sales / Total Asset



Altman's Z Score



Altman's Z Score Analysis Calculation

	Worki	ng Capital /	Total Asset	s			
	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
Working Capital	2,118.3	7,465.9	7,960.8	13,085.5	12,524.2	6,701.8	12,225.6
Total Assets	3,27,191.8	3,05,703.5	3,20,179.4	3,41,569.9	3,29,061.5	3,34,674.4	3,70,664.0
Working Capital / Total Assets (A)	0.65%	2.44%	2.49%	3.83%	3.81%	2.00%	3.30%
		d Earnings ,					
	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
Retained Earnings	880.4	-	-	-	-	-	24,984.3
Total Assets		3,05,703.5	3,20,179.4	3,41,569.9	3,29,061.5	3,34,674.4	
Retained Earnings / Total Assets (B)	0.27%	-	-	-	-	-	6.74%
		BIT / Total	Accots				
	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
EBIT	9,904.1	1,073.7	-3,438.4	8,740.7	-115.6	6,955.4	32,268.2
Total Assets	•	3,05,703.5	,	,		•	•
EBIT / Total Assets (C)	3.03%	0.35%	-1.07%	2.56%	-0.04%	2.08%	8.71%
,							
	Market (Cap / Long 1	erm Liabilit	ies			
	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
Market Cap	1,11,001.6	59,177.1	25,561.8	1,15,561.1	1,66,100.9	1,61,170.5	3,38,175.6
Long Term Liabilities	88,950.5	1,06,175.3	1,24,787.6	1,42,130.6	1,46,449.0	1,34,113.4	1,07,262.5
Market Cap / Long Term Liabilities (D)	124.79%	55.74%	20.48%	81.31%	113.42%	120.17%	315.28%
		Sales / Tota					
	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
Total Sales		3,01,938.4				, ,	4,37,927.8
Total Assets		3,05,703.5					
Return on Asset (E)	89.11%	98.77%	81.54%	73.13%	84.62%	103.37%	118.15%
		Altman's Z	Score				
	Mar-18	Mar-19	Mar-20	Mar-21	Mar-22	Mar-23	Mar-24
Final Score	1.75	1.36	0.93	1.35	1.57	1.85	3.49
Financial Stability	Distressed	Distressed	Distressed	Distressed	Distressed	Grey Zone	Strong

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