



<u>A STUDY ON THE FINANCIAL PERFORMANCE OF</u> <u>SELECT PASSENGER CAR COMPANIES IN INDIA</u>

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- 1) Objective of the study.
- 2) Hypothesis
- 3) Profitability Analysis
 - Within companies.
 - Impact of cost reduction techniques & sales revenue on profitability level.
 - Within industry.
- 4) Statistical tools.

Objectives of the Study

The Primary objective of the study is to understand the profitability level of the companies selected which would throw light on their financial performance respectively.

The study answers following questions:

- 1. Is sales revenue a major component in determining profit level?
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Does cost reduction techniques and economies of scale affects profits of the companies?
What are the reasons for differences in the profit level within the company and amongst different

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companies within the industry

Hypothesis of the research study

The following hypothesis has been tested in this study:

- H0 = the profitability level of the company differs significantly over a period of 5 years,
- H0 = the profitability level of different companies differ significantly with respect to each other,
- H0 = fuel prices affect the profitability of the company,
- H0 = cost of production is a significant factor which affects the profit level.

Maruti Suzuki India Limited (MSIL)

- The revenues of MSIL have grown in each of the last 5 years however the growth was the sharpest during the revival period after the recession of 2008-09.
- The revenue growth was fuelled by various factors including new model launches, increased rural penetration, higher demand and higher disposable income (esp after the VI Pay Commission).
- The gross margins have fallen over the last 5 years for MSIL mainly on account of higher input cost or lower realizations due to higher discounts offered to customers. This is also attributable to the stiff competitive environment in which these companies operate, which restricts them in passing on their increased cost of production.
- Higher metal price resulted in lower gross margins in FY11. Input cost is an important factor that affects the profitability and we note that the gross margins fluctuates with movement in input/metal prices.
- Operating and net margins moved in the same direction as the movement in gross margins.

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- MSIL has a very strong balance sheet with strong TNW and low borrowing levels resulting in negligible debt equity ratio and a very comfortable total gearing.
- The financial ratios of the company turned stronger with very low gearing levels and high interest coverage.
- The company has very strong liquidity with over INR 76bn in cash reserves.
- During this period, Maruti launched improved versions of its various existing models including SX4 Automatic, Dzire Diesel, Astar and Zen Estilo. All these models have been a great success in their respective categories.

MSIL - (Amount in	Audited	Audited	Audited	Audited	Audited
INR M)	31Mar07	31Mar08	31Mar09	31Mar10	31Mar11
Sales Turnover	145,922	178,603	203,583	289,585	361,282
Growth in Turnover	21.57%	22.40%	13.99%	42.24%	24.76%
Cost of Goods Sold	110,637	136,666	162,650	224,430	288,200
Depreciation	2,714	5,682	7,065	8,250	10,135
Gross Profit	27,567	29,412	24,689	44,051	41,249
Gross Profit Margin	<mark>18.89%</mark>	16.47%	12 <mark>.13</mark> %	15.2 <mark>1%</mark>	11.42%
Operating Profit	18,494	18,416	11,927	29,804	23,710
Operating Profit Margin	12.67%	10.31%	5.8 <mark>6%</mark>	10.29%	6.56%
EBITDA	25,888	31,308	24,185	44,293	41,265
Interest Expense	376	596	362	118	42
PAT	15,745	17,397	12,187	24,976	22,886
PAT Margin	10.79%	9.74%	5.99%	8.62%	6.33%
Fangible Net worth		1.7 18			ie.

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	67,438	83,158	92,660	117,356	137,350
Total External	6.000	1.000			Ser all
Borrowings	7,236	12,527	7,538	8,889	4,317
External Gearing	H.	1-525		1 10 10 10	
(DEq ratio)	0.11	0.15	0.08	0.08	0.03
Total Liabilities	34,099	39,886	43,494	46,098	46,403
C <mark>ash & Cash</mark>					
Equivalents	46,885	51,896	51,003	72,628	76,027
Fotal Gearing Ratio	<mark>0.51</mark>	0.48	0.47	0.39	0.34
Current Ratio	2.77	2.47	1.82	2.19	1.64
Interest Coverage					
Ratio	50.09	39.72	54.18	282.58	787.21
Debt / EBITDA Ratio	0.28	0.40	0.31	0.20	0.10

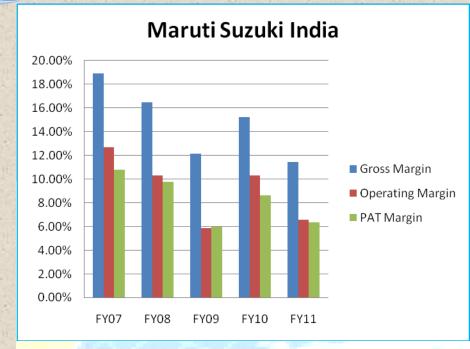
MSIL	FY07	FY08	FY09	FY10	FY11
Gross Margin	18.89%	16.47%	12.13%	15.21%	11.42%
Operating					
Margin	12.67%	10.31%	5.86%	10.29%	6.56%
PAT Margin	10.79%	9.74%	5.99%	8.62%	6.33%



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Hyundai Motor India Limited (HMIL)

- Hyundai, the 2nd largest player, has an equally strong export market viz a viz Maruti. The growth in export sales has surpassed the domestic volumes in 2009/10. Local sales grew in 2010 over 2009 on account of lower excise duty and lower finance cost.
- Revenues grew at CAGR of 16% till 2008 while in 2009 the export sales jumped by ~80% resulting an overall growth of 53%. In 2010 revenues grew by 26%.
- Higher volume growth was supported by doubling the installed capacity in 2008. The new capacity was utilised to manufacture the *i*10 and *i*20 which contributed the highest in export volume.
- While raw material cost lowered the same was passed on to the customers to support topline but higher operating expenses reduced operating profit.
- Financials remain strong with significantly lower debt levels which further reduced thee finance cost by over 60pct in FY2010.

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• During this period, Hyundai concentrated on its existing models with higher spend on advertisement and marketing expenses. While it supported the top-line, the operating profitability was lowered by 0.96%.

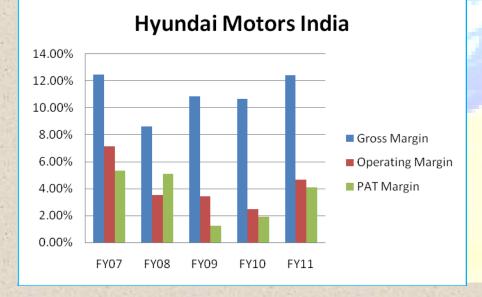
HMIL - (Amount in INR M)	Audited 31Mar07	Audited 31Mar08	Audited 31Mar09	Audited 31Mar10	Audited 31Mar11
	87,625	101,189	155,225	196,225	194,082
Growth in Turnover	19.39%	15.48%	53.40%	26.41%	-1.09%
Cost of Goods Sold	<mark>66,</mark> 894	81,650	130,139	166,200	161,060
Depreciation	3,590	4,611	6,745	7,529	7,077
Gross Profit	10,943	8,711	16,860	20,910	24,076
<mark>Gross Pr</mark> ofit Margin	12.49%	8.61%	10.86%	10.66%	12.41%
Operating Profit	6,252	3,582	5,324	4,845	9,086
Operating Profit Margin	7.13%	3.54%	3.43%	2.47%	4.68%
EBITDA	10,867	12,550	11,980	14,098	19,633
Interest Expense	129	746	2,235	939	428
PAT	4, <mark>667</mark>	5,141	1,957	3,755	7,943
PAT Margin	5. <mark>3</mark> 3%	5.08%	1.26%	1.91%	4.09%
Tangible Networth	24,992	29,861	30,037	32,418	40,426
Total External Borrowings	18897	31,045	42,229	22,327	25,688
External Gearing (DEq ratio)	0.76	1.04	1.41	0.69	0.64
Total Liabilities	35562	56119	77165	59519	56,040
Cash & Cash Equivalents	2,403	6,616	5,619	4,514	18,113





Total Gearing Ratio	1.42	1.88	2.57	1.84	1.39
Current Ratio	1.08	1.09	1.1	1.35	1.59
Interest Coverage Ratio	65.01	14.07	4.89	13.02	36.09
Debt / EBITDA Ratio	1.74	2.47	3.52	1.58	1.31

Hyundai	FY07	FY08	FY09	FY10	FY11
G <mark>ros</mark> s Margin	12.49%	<mark>8.61%</mark>	10.86%	10.66%	12.41%
Operating	1	1			
Margin	7.13%	3.54%	3.43%	2.47%	4.68%
PAT Margin	5.33%	5.08%	1.26%	1.91%	4.09%



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Tata Motors Limited (TML)

- Tata Motors, the 3rd largest player, has been fairly stable in its overall market share over last 4-5 yrs.
- Financials of FY09/FY10 are not comparable with that of PY's as FY09 includes UK based Jaguar and Land Rover as well, the company which Tata acquired in 2008. The company sells commercial vehicles which is also included in the income number but not in volumes shown in table above.
- Lower raw material cost was mostly passed on to the customers supporting revenue growth but main support to profitability was provided by significantly lower than proportionate operating expenses resulting in higher operating profit in FY10 over FY09. Interest cost (loan for JLR acquisition) remained high. Contribution from JLR improved in FY10 and higher operating profit supported the higher finance charges. Profit on currency fluctuation of INR 8Bn further increased the profit.
- Financials were acceptable till FY08 while in FY09 it became weak on account of losses, high level of debts and poor financial ratios. In 2008 it also delayed payment to its vendors, when it felt cash crunched while moving its Nano plant to Gujarat from WB. Debt level increased but higher profits improved the debt/EBITDA levels sharply to 3.75x.
- The company launched Indica Vista, Indigo Manza and improved Tata Sumo.

TML - (Amount i	nAudited	Audited	Audited	Audited	Audited
INR M)	31Mar07	31Mar08	31Mar09	31Mar10	31Mar11
Sales Turnover	323,612	354,086	709,231	917,873	1,231,333
Growth in Turnover	36.15%	9.42%	100.30%	29.42%	34.15%
Cost of Goods Sold	219,613	243,623	480,246	614,953	790,563
Depreciation	6,881	7,821	25,068	38,871	46,555
Gross Profit	75,910	84,246	157,815	208,066	349,438
Gross Profit Margin	23.46%	23.79%	22.25%	22.67%	28.38%

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Operating Profit	32,806	33,813	4,603	28,148	109,456
Operating Profit Margin	10.14%	9.55%	0.65%	3.07%	8.89%
EBITDA	42,419	46,124	18,283	89,782	159,217
Interest Expense	4,864	7,431	14,508	15,684	20,454
PAT	22,048	22,348	(24,651)	25,169	92,208
PAT Margin	<mark>6.81%</mark>	6.31%	-3.48%	2.74%	7.49%
Tangible Networth	71,328	77,441	(35,513)	(55,295)	108,322
Total External Borrowings	97,397	156,649	387,126	414,422	327,914
External Gearing (DEq	1.37	2.02	-10.90	-7.49	3.03
Total Liabilities	177,000	266,487	684,468	788,974	821,179
Cash & Cash Equivalents		48,039	42, <mark>01</mark> 8	98,1 <mark>74</mark>	120,706
Total Gearing Ratio	2.48	3.44	-19.27	-14.27	7.58
Current Ratio	0.82	0.78	0.50	0.67	0.84
Interest Coverage Ratio	6.95	5.06	1.03	5.08	7.78
Debt / EBITDA Ratio	2.30	3.40	21.17	4.62	2.06

Tata Motors	FY07	FY08	FY09	FY10	FY11
Gross Margin	23.46%	23.79%	22.25%	22.67%	28.38%
Operating	10.14%	9.55%	0.65%	3.07%	8.89%

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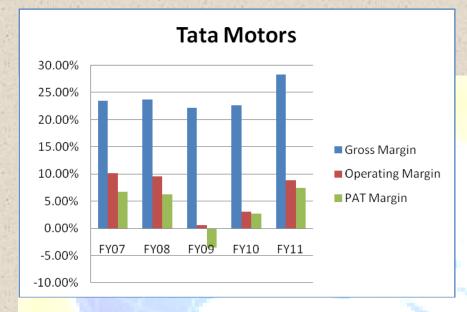
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Margin					
PAT Margin	6.81%	6.31%	-3.48%	2.74%	7.49%



Ford India Private Limited (FIPL)

- Ford tried hard to increase its market share by the launch of the Ikon in late 90's and also the Fiesta in 2005 but it could not survive more than a year of growth. Its volume at both domestic and export market confirms this fact, which has fallen sharply post an increase till 2007. It almost lost its export market. Ford Endeavour in SUV segment continues to perform fairly stable. Ford Figo was launched towards the end of FY10 & has improved the market share of the company to some extent.
- Sharp growth in the revenues in FY07 was on account of the launch of Fiesta which had turned around the financials and the company showed an operating profit in 2007. Lack of car variants in addressable market and higher servicing cost resulted in lower acceptability of Ford vehicles. The revenues have fallen since 2007.
- While raw material cost was lower the company was not able to fully reap the benefit and while the revenue increased by 19.5pct, the gross margin fell by ~7pct. The company saved on the proportionate operating expenses and lower finance cost but these were not

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enough for the gross loss incurred by the company and the company closed the year with a net loss margin of 7.8pct FY10.

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- Higher debt level were supported by the equity support from its parent in 2009 of INR 9Bn.
- The financials remain weak.

FIPL - (Amount in INR M)		Audited 31Mar08			
<mark>Sales Turnove</mark> r	21,918	20,315	17,017	20,329	48,651
Growth in Turnover		-7.31%	-16.23%	19.46%	139.32%
Cost of Goods Sold	17,030	14,786	13,065	16,578	40,521
Depreciation	1,041	1,049	985	1,435	2,810
<mark>Gross Pr</mark> ofit	3,090	3,673	2,147	1,162	2,936
Gross Profit Margin	14.10%	18.08%	12.62%	5.72%	6.03%
Operating Profit	413	(94)	(1,410)	(2,900)	(1,884)
Operating Profit Margin	1.88%	-0.46%	-8.29%	-14.27%	-3.87%
EBITDA	1,665	1,053	163	17	2,121
Interest Expense	419	494	339	165	386
PAT	196	(508)	(1,182)	(1,584)	-1,075
PAT Margin	0.89%	-2.50%	-6.95%	-7.79%	-2.21%
Tangible Net worth	3,208	2,711	10,188	10,151	9,083
Total External Borrowings	6,770	8,670	8,071	12,636	14,180

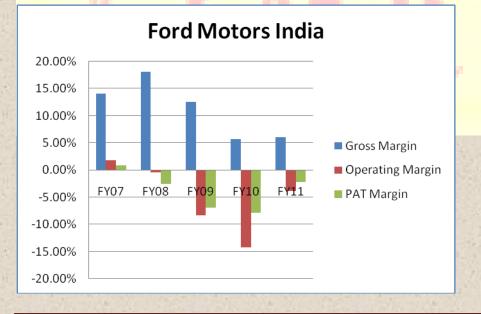
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External Gearing (DEq ratio)	2.11	3.20	0.79	1.24	1.56
Total Liabilities	12,102	16,197	14,939	25,300	28,505
Cash & Cash	12	1	1.4.4		
Equivalents	540	1,058	2,677	2,499	3,461
Total Gearing Ratio	3.77	5.97	1.47	2.49	3.14
Current Ratio	0.64	0.74	1.01	0.86	0.8
Interest Coverage Ratio	3.95	2.10	0.42	0.10	5.49
Debt / EBITDA Ratio	4.07	8.23	49.52	743.29	6.69

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Mahindra & Mahindra Limited (M&M)

- M&M has been a player mostly in the SUV segment and recently in FY08 it launched the Logan in JV with Renault. Earlier it used to sell SUV's like the Bolero and Scorpio.
- The revenues increased at a CAGR of 17% till FY09 and by 42% in FY10 led by strong growth in the SUV segment and the launch of Logan.
- The financials of M&M also include the sale of tractors and farm equipments. Hence they were not majorly affected as agri-production in FY08/10 was good and hence supported the revenues and profitability of M&M in the said period.
- The operating profit margins reached an all time of 14.5pct during the last 4 years. This was supported by better realisation on account of lower excise duty and lower input cost.
- The company loaded significant debts on its balance sheet till FY09 for it capex which increased the interest cost but the significant repayment of debt in FY10 resulted in improved capital structure and lower finance charges. The company was less affected by the global recession as it received support from the tractors segment.
- Bolero continues to remain a very strong product in its segment and is driving the sales in the UV segment.

M&M (Amount in	Audited	Audited	Audited	Audited	Audited
INR M)	31Mar07	31Mar08	31Mar09	31Mar10	31Mar11
Sales Turnover	96,037	108,046	126,491	180,381	227,575
Growth in Turnover		12.50%	17.07%	42.60%	26.16%
Cost of Goods Sold	67,808	76,794	92,314	122,733	162,130
Depreciation	2,096	2,387	2,915	3,708	4,139
Gross Profit	23,844	25,972	28,757	50,352	57,347

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Gross Profit Margin	n 2	24.83%	24.04%	22.73%	27.91%	25.20%
Operating Profit	ç	9,325	11,073	8,068	26,145	30,370
Operating Profit M	argin	9.71%	10.25%	6.38%	14.49%	13.35%
EBITDA	1	16,673	17,330	14,621	33,746	40,045
Interest Expense	1	198	876	1,341	1,569	709
Profit After Tax (PA	AT) 1	10,876	11,033	8,368	20,878	26,622
PAT Margin	1	11.32%	10.21%	6.62%	11.57%	11.70%
Tangible Networtl	h 3	34,924	42,417	50,206	74,840	99,243
Total Ext Borrowings	ternal 1	17580	27,129	41,591	29,874	25,405
External Gearing ratio)	(DEq).50	0.64	0.83	0.40	0.26
Total Liabilities	4	43216	58838	88506	83204	95,274
Cash & Equivalents	Cash	17094	14070	24431	27 <mark>80</mark> 0	13,348
Total Gearing Ratio	o 1	1.24	1.39	1.76	1.11	0.96
Current Ratio	1	1.42		1.07	1.28	0.94
Interest Coverage F	Ratio	56.52	16.32	9.41	16.67	44.39
Debt / EBITDA Ra	tio 1	1.05	1.57	2.84	0.89	0.63
M&M FY	707	FY08	FY09	FY10	FY11	
Gross Margin 24.	.83%	24.04%	22.73%	27.91%	25.20%	

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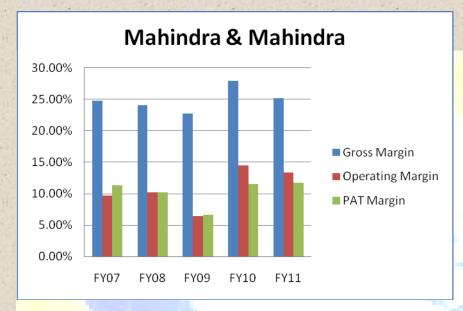
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Operating	1.4	24.24	1.57 1.18	122	1. 1.
Margin	9.71%	10.25%	6.38%	14.49%	13.35%
PAT Margin	11.32%	10.21%	6.62%	11.57%	11.70%



Skoda Auto India Pvt Ltd (Skoda)

- Globally Skoda fell prey to the recession and was acquired by Volkswagen. In India, Skoda operates as a separate entity but it is ultimately owned by Volkswagen. Its sale performance has been consistently stable.
- Revenues have grown at CAGR of 25% in the last 4 years. The operating performance of the company was good during 2006/07 when the operating margin increased to 7.8pct led by better sales realisation.
- Revenue growth in 2008 was also supported by the launch of Skoda Fabia the small segment hatch back car catering to premium segment.
- However in 2008/09, the company had to book a loss at operating level mainly on account of higher selling expenses in the form of discounts and higher depreciation cost –

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which increased the overall cost of the car while the selling price could not be increased due to recession.

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• Financials remain moderate with comfortable gearing ratios. But due to loss booked in 2009 it had a negative interest cover – which was supported by strong TNW.

Skoda (Amount in	Audited	Audited	Audited	Audited	Audited
INR M)	31Dec06	31Dec07	31Dec08	31Dec09	31Dec10
Sales Turnover	11,647	12,333	15,112	19,073	29,747
Growth in Turnover		5.89%	22.53%	26.21%	55.9 <mark>6%</mark>
Cost of Goods Sold	9,485	9,536	14,060	18,324	27,346
Depreciation	221	195	381	596	630
Gross Profit	1,681	2,450	571	78	1,665
Gross Profit Margin	14.43%	19.87%	3.78%	0.41%	5.60%
Operating Profit	537	958	(467)	(2,352)	(1,968)
Operating Profit Margin	4.61%	7.77%	-3.09%	-12.33%	-6.62%
EBITDA	758	1,153	(67)	(78)	673
Interest Expense	0	0	19	29	3
Profit After Tax (PAT)	168	584	(623)	(704)	(134)
PAT Margin	1.44%	4.74%	-4.12%	-3.69%	-0.45%
Tangible Networth	718	2,508	2,053	1,349	999
Total External	1758	3,002	4,692	3,496	5,116

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Borrowings		4.5			
External Gearing (DEq ratio)	2.45	1.20	2.29	2.59	5.12
Total Liabilities	5254	8485	11362	10165	14,974
Cash & Cash Equivalents	796	2983	191	1274	199
Total Gearing Ratio	7.32	3.38	5.53	7.54	14.99
Current Ratio	1.30	1.60	1.22	1.18	1.40
Interest Coverage Ratio	3,891.00	7,791.00	(11.74)	(2.72)	166.33
Debt / EBITDA Ratio	2.32	2.60	(70.03)	(44.82)	7.60
Total Borrowings (Excluding PS)	1,758	2,440	3,279	3,496	4,554

Skoda	FY07	FY08	FY09	FY10	FY11
G <mark>ros</mark> s Mar <mark>gin</mark>	14.43%	<mark>19.87%</mark>	3.78%	0.41%	5.60%
Operating	U J		Y		
Margin	4.61%	7.77%	-3.09%	-12.33%	- <mark>6.62%</mark>
PAT Margin	1.44%	4.74%	-4.12%	-3.69%	-0.45%

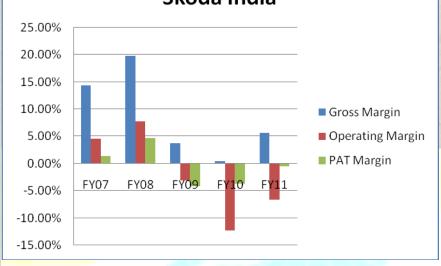


IJMT

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Skoda India



BMW India Private Limited (BMW)

- Globally Skoda fell prey to the recession and was acquired by Volkswagen. In India, Skoda operates as a separate entity but it is ultimately owned by Volkswagen. Its sale performance has been consistently stable.
- Revenues have grown at CAGR of 25% in the last 4 years. The operating performance of the company was good during 2006/07 when the operating margin increased to 7.8pct led by better sales realisation.
- Revenue growth in 2008 was also supported by the launch of Skoda Fabia the small segment hatch back car catering to premium segment.
- However in 2008/09, the company had to book a loss at operating level mainly on account of higher selling expenses in the form of discounts and higher depreciation cost which increased the overall cost of the car while the selling price could not be increased due to recession.
- Financials remain moderate with comfortable gearing ratios. But due to loss booked in 2009 it had a negative interest cover which was supported by strong TNW.

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BMW India (Amount in	Audited	Audited	Audited	Audited
INR M)	31Mar08	31Mar09	31Mar10	31Mar11
Sales Turnover	8,164	9,219	11,742	19,292
Growth in Turnover		12.92%	27.37%	64.30%
Cost of Goods Sold	5,629	7,191	10,211	14,741
Depreciation	89	99	151	153
Gross Profit	2,408	1,805	1,359	4,332
Gross Profit Margin	29.50%	19.58%	11.57%	22.45%
Operating Profit	1,290	413	160	2,586
Operating Profit Margin	15.80%	4.48%	1.36%	13.40%
EBITDA	1,246	808	491	2,873
Interest Expense	53	126	140	44
Profit After Tax (PAT)	718	381	109	1,655
PAT Margin	8.79%	4.13%	0.93%	8.58%
Tangible Networth	2,048	2,452	2,569	4,175
Total External Borrowings	822	1,966	1,042	507
External Gearing (DEq ratio)	0.40	0.80	0.41	0.12
Total Liabilities	3,431	8,829	5,866	11,433
Cash & Cash Equivalents	533	346	186	672
Total Gearing Ratio	1.68	3.60	2.28	2.74
Current Ratio	1.66	1.27	1.28	1.27

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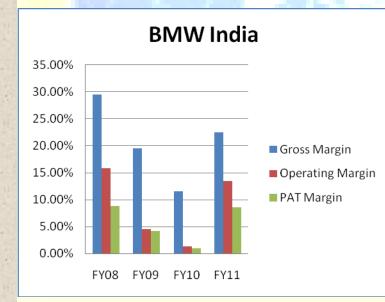






Interest Coverage Ratio	16.23	4.81	2.86	42.09
Debt / EBITDA Ratio	0.66	2.43	2.12	0.18

BMW	FY08	FY09	FY10	FY11
Gross Margin	29.50%	19.58%	11.57%	22.45%
Operating				
Margin	15.80%	4.48%	1.36%	13.40%
PAT Margin	8.79%	4.13%	0.93%	8.58%



Mercedes India Pvt Ltd (Merc)

• Mercedes India, similar to BMW India, is a luxury car manufacturer in India. The company manufactures some models in India while they also trades in some of their best selling models globally into India.

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- While the revenue growth has been consistent till FY10, it was strong competition from rivals BMW and Audi (part of Volkswagen Grp) which has resulted in the revenue growth of 71pct in FY11.
- Historically the gross margins has remained above 20pct level, except the period of downturn in FY09, during which the gross margins reduced to 13pct. The operating margins was also significantly affected in FY09 due to lower gross margins by 13pct. The gross margins however improved in FY10 to 24pct and reduced marginally to 22pct in FY11. This is further expected to reduce in FY12 as well.
- Interest cover remains string with low debt levels and thereby lower finance charges resulting in higher interest coverage ratio.
- Revenue growth was also supported by the launch of corporate segment in the sedan class along with significant push on the selling and distribution side.
- The company remains debt free with only overdraft facility having a small outstanding. Higher TNW and negligible borrowings resulted in the external gearing to stand at nil. The liquidity profile of the company is however moderate – mainly on account of lower than average cash balance.

Mercedes (Amount in	Audited	Audited	Audited	Audited	Audited
INR M)	31Mar07	31Mar08	31Mar09	31Mar10	31Mar11
Sales Turn <mark>ove</mark> r	6,674	9,539	11,318	13,057	22,381
Growth in Turnover		42.93%	18. <mark>65%</mark>	15.36%	71.41%
Cost of Goods Sold	4,917	6,558	9,479	9,345	16,621
Depreciation	129	134	149	114	98
Gross Profit	1,474	2,608	1,473	3,141	5,097
Gross Profit Margin	22.09%	27.34%	13.01%	24.06%	22.77%
Operating Profit	629	1,477	33	1,534	2,592
Operating Profit	9.42%	15.48%	0.29%	11.75%	11.58%

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Margin		1.5		24. A.S.	
EBITDA	1,038	1,882	198	1,645	3,129
Interest Expense	1	4	126	210	51
Profit After Tax (PAT)	532	1,036	-15	864	2,035
PAT Margin	7.97%	10.86%	-0.13%	6.62%	9.09%
Tangible Networth	4,122	4,455	4,488	5,267	7,058
Total External Borrowings	32	0	370	19	23
External Gearing (DEq ratio)	0.01	0.00	0.08	0.00	0.00
Total Liabilities	2,674	5,862	8,688	5,894	10,405
<mark>Cash & C</mark> ash					
Equivalents	750	1,208	497	1,058	733
Total Gearing Ratio	0.65	1.32	1.94	1.12	1.47
Current Ratio	1.64	1.18	1.34	1.67	1.47
Interest Coverage		1			
Ratio	662.00	293.50	2.06	5.66	42.82
Debt / EBITDA Ratio	0.03	0.00	1.87	0.01	0.01

Mercedes	FY07	FY08	FY09	FY10	FY11
Gross Margin	22.09%	27.34%	13.01%	24.06%	22.77%

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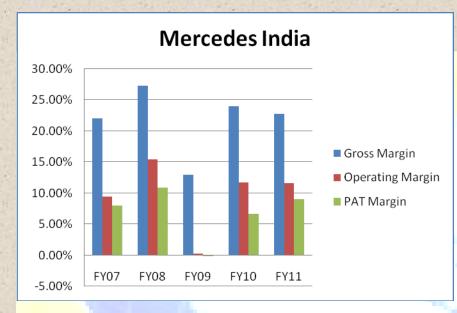
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Operating			and a start	12268	1. 1. 1. 1.
Margin	9.42%	15.48%	0.29%	11.75%	11.58%
PAT Margin	7.97%	10.86%	-0.13%	6.62%	9.09%



Financial Performance / Comparison within Industry

Amount in INF	2							
Million		Hyundai	Tata	Ford	M&M	Skoda	BMW	Mercedes
Financial Year Ending	g31-Mar-11	31-Mar-11	31-Mar-11	31-Mar-11	31-Mar-11	31-Dec-10	31-Mar-11	31-Mar-11
Sales Turnover	361,282	194,082	1,231,333	48,651	227,575	29,747	19,29 <mark>2</mark>	22,381
Growth in Turnover	24.76%	-1.09 <mark>%</mark>	34.15%	139.32 <mark>%</mark>	26.16%	55.96%	64.30 <mark>%</mark>	71.41%
Cost of Goods Sold	288,200	161,060	790,563	40,521	162,130	27,346	14,741	16,621
Depreciation	10,135	7,077	46,555	2,810	4,139	630	153	98
Gross Profit	41,249	24,076	349,438	2,936	57,347	1,665	4,332	5,097
Gross Profit Margin	11.42%	12.41%	28.38%	6.03%	25.20%	5.60%	22.45%	22.77%
Operating Profit	23,710	9,086	109,456		30,370	2.4	2,586	2,592

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				(1,884)		(1,968)	1.5	
Operating Profit Margin	6.56%	4.68%	8.89%	-3.87%	13.35%	-6.62%	13.40%	11.58%
EBITDA	41,265	19,633	159,217	2,121	40,045	673	2,873	3,129
Interest Expense	42	428	20,454	386	709	3	44	51
Profit After Tax (PAT)	22,886	7,943	<mark>92,</mark> 208	-1,075	26,622	(134)	1,655	2,035
PAT Margin	6.33%	4.09%	7.49%	-2.21%	11.70%	-0.45%	8.58 <mark>%</mark>	9.09%
Tangible Networth	137,350	40,426	108,322	9,083	99,243	999	4,17 <mark>5</mark>	7,058
Total External Borrowings	4,317	25,688	327,914	14,180	25,405	5,116	507	23
External Gearing (DEq ratio)	0.03	0.64	3.03	1.56	0.26	5.12	0.12	0.00
Total Liabilities	46,403	56,040	821,179	28,505	95,274	14,974	11,43 <mark>3</mark>	10,405
Cash & <mark>C</mark> ash Equivalents	76,027	18,113	120,706	3,461	13,348	199	672	733
Total Gearing Ratio	0.34	1.39	7.58	3.14	0.96	14.99	2.74	1.47
Current Ratio	1.64	1.59	0.84	0.8	0.94	1.40	1.27	1.47
Interest Coverage Ratio	787	36.09	7.78	5.49	44.39	166.33	42.09	42.82

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	Sec. 45.			1	2.2	1.57	2.24.23
Debt / EBITDA Ratio 0.10	1.31	2.06	6.69	0.63	7.60	0.18	0.01
Contract to the second state of the	1 4 K 1	State in the	18 S &	C. STEN	1 8 S K.	E CARLEN	1.1.1

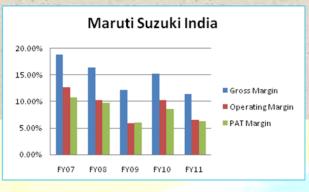
- The above table gives a snapshot of the financial position of the key players in the automobile industry in the previous financial year. As per the table above, while the revenue of Tata Motors is the highest, it should be noted that the revenue of Tata Motors mainly represents the revenue from the commercial vehicle segment while other players (excluding M&M which is also in present in CV segment) revenue consist of passenger vehicles only.
- Maruti remains the top player with highest revenue contribution from passenger car segment while M&M has the highest profit margin. Ford is the weakest amongst the key players along with Skoda, which as well is loss making.
- Capital structure of Maruti remains the strongest with Ford/Skoda being the weakest. Tata has a significant debt and their gearing levels are high mainly on account of higher intangibles which results in lower TNW. Tata Motors maintains strong profit levels and satisfactory interest cover. Tata Motors has the hasghest cash reserves at INR 121Bn followed by Maruti at INR 76Bn. These are sufficient to meet any unforeseen cash flow mismatches.
- Overall Maruti is the strongest player and also has the highest market share.



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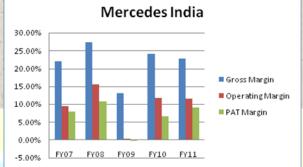
<u>Hypothesis:</u> H0 = the profitability level of the company differs significantly over a period of

5 years,

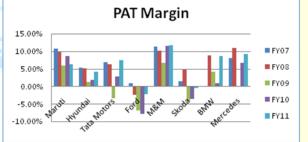


MSIL	FY07	FY08	FY09	FY10	FY11
Gross Margin	18.89%	16.47%	12.13%	15.21%	11.42%
Operating Margin	12.67%	10.31%	5.86%	10.29%	6.56%
PAT Margin	10.79%	9.74%	5.99%	8.62%	6.33%

- The table and chart above shows that the profitability level of the company has not remained at the same level but has moved in similar direction over the tenor of last 5 years.
- The movement in gross margins has also resulted in the operating and net margins to move in similar manner.
- The table above shows the profitability levels of only two companies and this test is also valid across the industry – refer the chart alongside.



Mercedes	FY07	FY08	FY09	FY10	FY11
Gross Margin	22.09%	27.34%	13.01%	24.06%	22.77%
Operating Margin	9.42%	15.48%	0.29%	11.75%	1 <mark>1.58</mark> %
PAT Margin	7.97%	10.86%	-0.13%	6.62%	9.09%



Hypothesis Testing Using META Analysis

- Random effects meta-regression rests on the assumption that θ in N(θ , μ) is a random variable following a (hyper-)distribution A random effects meta-regression is called a mixed effect model when moderators are added to the model.
- Y =B1 θ 1 +B2 θ 2+.....BN θ N. Is the regression equation which analysis the impact of different variables on the dependent variable.
- μ is the MEAN PROFIT of the industry in study. Between study variance is estimated using common estimation procedures for random effects models

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Various θ variables are the profitability ration calculated for different companies. B1, B2....BN are the weights assigned to s particular ratio. After calculations, the resulted generated showed that Maruti Suzuki, Hyundai and M&M are the most consistent performers

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<u>Hypothesis:</u> H0 = the profitability level of different companies differ significantly with respect to each other,

Gross Margin	FY07	FY08	FY09	FY10	FY11
Maruti	18.89%	16.47%	12.13%	15.21%	11.42%
<mark>Hyu</mark> ndai	<mark>12.49</mark> %	8.61%	10.86%	10.66%	12.41%
Tata Motors	23.46%	23.79%	22.25%	22.67%	28.38%
Ford	14.10%	18.08%	12.62%	5.72%	6.03%
M&M	24.83%	24.04%	22.73%	27.91%	25.20%
Skoda	14.43%	19.87%	3.78%	0.41%	5.60%
BMW	-	29.50%	19.58%	11.57%	2 <mark>2</mark> .45%
Mercedes	22.09%	27.34%	13.01%	24.06%	22.77%
	a second				
Operating Margin	FY07	FY08	FY09	FY10	FY11
Maruti	12.67%	10.31%	5.86%	10.29%	6.56%
Hyundai	7.13%	3.54%	3.43%	2.47%	4.68%
Tata Motors	10.14%	9.55%	0.65%	3.07%	8.89%
Ford	1.88%	-0.46%	-8.29%	-14.27%	-3.87%
M&M	9.71%	10.25%	6.38 <mark>%</mark>	14.49%	13.35%
Skoda	4.61%	7.77%	-3.09 <mark>%</mark>	-12.33%	-6.62%
BMW	-	15.80%	4.48%	1.36%	13.40%

15.48%

0.29%

11.75%

11.58%

9.42%

Mercedes

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- The table and chart above clearly shows that various companies have different levels of profit margins despite being in the same industry. This is mainly on account of different pricing policy, product strength, customer loyalty and type of input materials used.
- It is noted that the profit margins of Ford and Skoda are the weakest. This is mainly because of their small scale of operation in the country which has resulted in higher operating expenses and also are unable to enjoy higher economies of scale.

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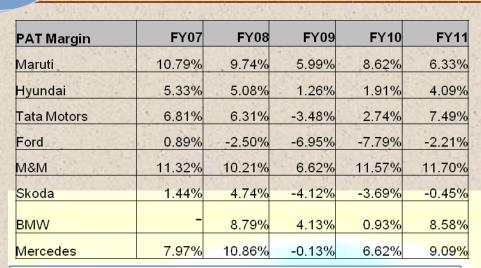
Hypothesis Testing Using T-Test & F-Test

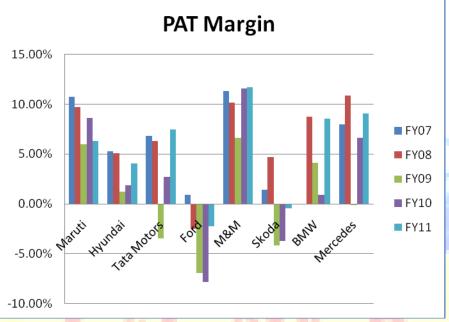
- T-Test was conducted at 10pct confidence interval to check the profitability levels of the companies in the industry and significant differences were found.
- Y= (population mean sample mean) / standard deviation of the population. In this case, population mean is industry population, sample mean is the company profit. After finding the T values, again the Meta analysis was performed and analysed as follows:
- Y =B1θ1 +B2θ2+.....BNθN, where θ1 & θ2 are the values of the independent variables.



Hypothesis: H0 = fuel prices affect the profitability of the company,

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Hypothesis Testing Using Co-determination

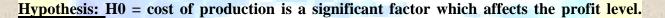
- test hypotheses about <u>cause-and-effect</u> relationships. In this case, the experimenter determines the values of the X-variable and sees whether variation in X causes variation in Y. For example, giving people different amounts of a drug and measuring their blood pressure.
- The second main use for correlation and regression is to see whether two variables are associated, without necessarily inferring a <u>cause-and-effect</u> relationship. In this case, neither variable is determined by the experimenter; both are naturally variable. If an association is found, the inference is that variation in X may cause variation in Y, or

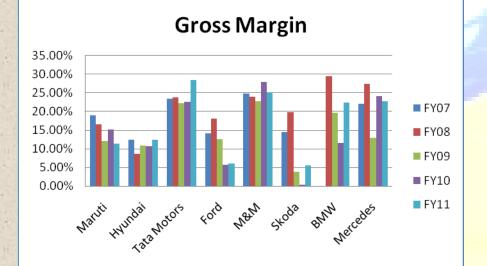
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variation in Y may cause variation in X, or variation in some other factor may affect both X and Y.

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- The third common use of linear regression is estimating the value of one variable corresponding to a particular value of the other variable.
- A non linear correlation equation of the form y=a +bx +cxx is being used
 - r2 is a co determination co-efficient which gives the impact of independent variable on dependant variable. Here fuel price is independent variable while sales and profits are dependent variable. It was found that by and large the sales and profit of all the companies (except luxury car manufacturers) were affected by the fuel price change. A negative correlation was found between the fuel price and the sales.





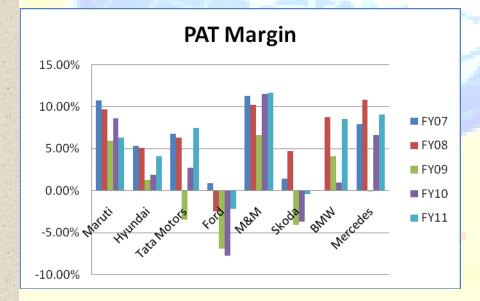
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Hyundai Motors India 14.00% 12.00% 10.00% 8.00% Gross Margin 6.00% Operating Margin 4.00% PAT Margin 2.00% 0.00% FY07 FY08 FY09 FY10 FY11

Hyundai	FY07	F Y08	FY09	FY10	FY11
Gross Margin	12.49%	8.61%	10.86%	10.66%	12.41%
Operating Margin	7.13%	3.54%	3.43%	2.47%	4.68%
PAT Margin	5.33%	5.08%	1.26%	1.91%	4.09%



Statistical Tools Used in the Study

The statistical tools used in the study are as follows:.

- T-Test for dependant and independent samples: We analyse the impact of cost and sales as independent variables on the profit level, (dependant variables) of a company on yearly basis and then find out how significantly has the profit changed.
- 2) Multiple Regression Analysis: In this analysis the profit is a dependant variable and cost, sales and other factors are independent variable. This calculation will help us in understanding the impact of these factors on profit, if any.
- 3) F-Test and analysis of Variance Test: Since the study is analysing the impact of cost and sales on profit level of a company, Two factor analysis of variance test is being used.
- 4) Ratio Analysis: which will determine the liquidity position, long term solvency, operating efficiency, overall profitability, inter firm comparison and trend analysis.