

Financial Analysis and Working Capital Management

Analysis Report

S & P BSE Oil & Gas

Roll No.	Name	Company
I010	Aman Chowhan	Indian Oil
I012	Sanskriti Dani	ONGC
I024	Uzair Khan	GAIL
I027	Saket Lakhotia	Reliance Industries
I033	Sahil Pariani	Hindustan Petroleum
I035	Tanish Patwari	Bharat Petroleum

Indian Oil Corporation Ltd

About the Company

Founded	Employees	CEO	Website
1959	31,648	Rachit Agarwal	https://www.iocl.com

Indian Oil Corporation Limited, together with its subsidiaries, engages in the refining, pipeline transportation, and marketing of petroleum products in India. It is also involved in the exploration and production of crude oil and gas; and marketing of natural gas and petrochemicals. The company's products include petrol/gasoline, diesel/gas oil, lubricants and greases, auto gas, cooking gas, kerosene, LPG, bulk/industrial fuels, aviation fuel, marine oils, and bitumen.

In addition, it offers special products, such as carbon black feedstock, raw petroleum coke, sulphur, paraffin wax, raw petroleum coke, jute batching oil, micro crystalline wax, mineral turpentine oil, toluene, propylene, benzene, and petcoke. The company operates through a network of approximately 9 refineries; 15,000 kilometers of crude/product and gas pipelines; approximately 29,000 fuel stations, including 8,515 Kisan Seva Kendra outlets; 118 terminals and depots; 95 LPG bottling plants; 121 aviation fuel stations; 6,885 consumer pumps; and approximately 12,726 LPG distributors. Its exploration and production portfolio comprises 9 oil and gas blocks in India; and 11 blocks in Canada, Gabon, Israel, Libya, Nigeria, Oman, Russia, the United Arab Emirates, the United States, and Venezuela. Further, it engages in the explosives and cryogenic; wind and solar power generation; lube blending; and lubricants and base oil marketing activities.

The company was incorporated in 1959 and is based in New Delhi, India.



Consolidated Balance Sheet					
Particulars	(in crores of INR)				
	As at March 31, 2021	As at March 31, 2020			
ASSETS					
Non-Current Assets					
Tangible Assets	1,40,916.14	42.18%	1,31,752.76	42.35%	
Intangible Assets	2,483.80	0.74%	1,929.04	0.62%	
Capital work-in-progress	31,600.61	9.46%	28,134.10	9.04%	
Non - Current Investments	39,752.12	11.90%	31,052.17	9.98%	
Deferred Tax Asset (net)	0	0.00%	0	0.00%	
Other Non-Current Assets	5,308.88	1.59%	7,209.23	2.32%	
Total Non-Current Assets	2,24,069.19	67.08%	2,04,937.70	65.88%	
Current Assets		0.00%		0.00%	
Current Investments	8,867.29	2.65%	8,086.39	2.60%	
Inventories	78,188.01	23.41%	63,677.62	20.47%	
Trade Receivables	13,397.68	4.01%	12,844.09	4.13%	
Cash & Cash Equivalents	1,668.27	0.50%	589.11	0.19%	
Short Term Loans and Advances	970.66	0.29%	1,054.79	0.34%	
Other Current Assets	6,892.98	0.020634324	19,900.86	6.40%	
Total Current Assets	1,09,984.89	32.92%	1,06,152.86	34.12%	
Total Assets	3,34,054.08	100.00%	3,11,090.56	100.00%	
EQUITY AND LIABILITIES					
Equity Share Capital	9,181.04	2.75%	9,181.04	2.95%	
Reserve and Surplus	1,01,319.00	30.33%	84,587.83	27.19%	
Total Shareholders Funds	1,10,500.04	33.08%	93,768.87	30.14%	
Minority Interest		0.00%	4.75	0.00%	
LIABILITIES					
Non-Current Liabilities					
Long Term Borrowings	55,407.95	16.59%	49,250.64	15.83%	
Deferred Tax Liabilities (net)	12,964.73	3.88%	11,413.14	3.67%	
Other Long Term Liabilities	3,423.59	1.02%	2,832.06	0.91%	
Long Term Provisions	943.93	0.28%	919.05	0.30%	
Total Non-Current liabilities	72,740.20	21.77%	64,414.89	20.71%	
Current Liabilities		0.00%		0.00%	
Short Term Borrowings	41,172.86	12.33%	63,486.08	20.41%	
Trade Payables	33,874.59	10.14%	25,224.30	8.11%	
Other Current Liabilities	66,512.83	19.91%	54,601.67	17.55%	
Short Term Provisions	9,253.56	2.77%	9,594.75	3.08%	
Total Current Liabilities	1,50,813.84	45.15%	1,52,906.80	49.15%	
Total Equity and Liabilities	3,34,054.08	100.00%	3,11,090.56	100.00%	

Consolidated Income Statement					
Particulars	As at March 31, 2021	(in millions of INR)			
		As at March 31, 2020			
INCOME					
Revenue from operations	3,74,981.13	98.01%	4,81,475.53	98.42%	
Other Income	4,550.72	1.19%	3,554.72	0.73%	
Total Income	3,82,608.33	100.00%	4,89,215.08	100.00%	
EXPENSES					
Cost of Materials Consumed	1,56,647.96	40.94%	2,47,077.03	50.50%	
Operating and Direct Expenses	7.69	0.00%	5.73	0.00%	
Finance Costs	3,093.92	0.81%	5,979.45	1.22%	
Employee Benefit Expenses	10,712.04	2.80%	8,792.65	1.80%	
Depreciation and Amortisation Expenses	9,804.30	2.56%	8,766.10	1.79%	
Other Expenses	34,005.13	8.89%	39,191.03	8.01%	
Total Expenses	3,52,892.68	92.23%	4,81,604.55	98.44%	
Profit/Loss Before Exceptional, ExtraOrdinary Items And Tax	21,836.04	5.71%	16,894.15	3.45%	
Exceptional Items		0.00%	-11,304.64	-2.31%	
Profit/Loss Before Tax	29,715.65	7.77%	25,126.92	5.14%	
Tax Expenses - Continued Operations					
Current Tax	6,761.03	1.77%	5,100.94	1.04%	
Less: MAT Credit Entitlement	0	0.00%	0	0.00%	
Deferred Tax	1,118.58	0.29%	-4,841.45	-0.99%	
Other Direct Taxes	0	0.00%	0	0.00%	
Total Tax Expenses	7,879.61	2.06%	-5,007.34	-1.02%	
Profit/Loss for the Period	21,836.04	5.71%	1,313.23	0.27%	
Minority Interest	-124.01	0%	983.18	0.20%	
Total Comprehensive Profit/Loss	21,638.21	5.66%	14570	2.98%	

FINANCIAL RATIOS				
			2021	2020
Profitability	Return on Assets (ROA) %		6.54%	0.42%
	(Net Profit after Tax/Total Assets)			
	Net Profit Margin (EAIT/Total Revenue)		5.71%	0.27%
	Return on Equity (ROE) %		19.76%	-0.95%
	(Net Profit after Tax/Shareholder Equity)			
Leverage	Debt-to-Equity (Total Debt/ Shareholder Equity)		0.87	1.20
	Debt (Total Debt / Total Assets)		0.29	0.36
Efficiency	Asset Turnover (Net Sales/Total Assets)		1.15	1.57
	Inventory Turnover		4.89	7.68
	(Total Sales/Average Inventory)			
Liquidity	Quick Ratio		0.21	0.28
	(Quick Assets/Current Liabilities)			
	Current Ratio		0.73	0.69
	(Current Assets/Current Liabilities)			

Du Pont Analysis - 2020									
Net Income	14,570								
EBT	25,127								
EBIT	16,894								
Revenue	4,89,215								
Total Assets	3,11,091								
Total Equity	93,769								
ROE=	<u>Net Income</u>	*	<u>Revenue</u>	*	<u>IA</u>				
	Revenue		TA		TE				
ROE=	0.029782402	*	1.572580923	*	3.317632				
ROE=	0.155382058								
ROE (from above) =	15.5382058								
ROE (calculated) =	15.54%								
Extended 5-factor Du Pont Analysis									
ROE=	<u>Net Income</u>	*	<u>EBIT</u>	*	<u>EBIT</u>	*	<u>Revenue</u>	*	<u>IA</u>
	EBT		EBIT		Revenue		TA		TE
ROE=	0.579856186	*	1.48731484	*	0.034533	*	1.572581	*	3.317632
ROE=	0.155382058								
ROE (from above) =	15.5382058								
ROE (calculated) =	15.54%								

Du Pont Analysis - 2021									
Net Income	21,638								
EBT	29,716								
EBIT	21,836								
Revenue	3,82,608								
Total Assets	3,34,054								
Total Equity	1,10,500								
ROE=	<u>Net Income</u>	*	<u>Revenue</u>	*	<u>IA</u>				
	Revenue		TA		TE				
ROE=	0.056554467	*	1.145348472	*	3.023113				
ROE (from above) =	0.195820834								
ROE (calculated) =	19.58%								
Extended 5-factor Du Pont Analysis									
ROE=	<u>Net Income</u>	*	<u>EBIT</u>	*	<u>EBIT</u>	*	<u>Revenue</u>	*	<u>IA</u>
	EBT		EBIT		Revenue		TA		TE
ROE=	0.72817556		1.360853433		0.057072		1.145348		3.023113
ROE (from above) =	0.195820834								
ROE (calculated) =	19.58%								

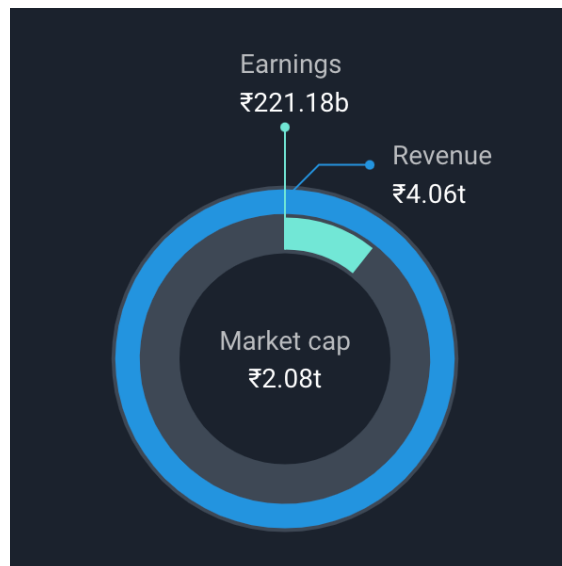
Oil and Natural Gas Corporation Ltd

About the Company

Founded	Employees	CEO	Website
1993	28,479	Subhash Kumar	https://www ONGC India com

Oil and Natural Gas Corporation Limited explores for, develops, and produces crude oil and natural gas in India and internationally. It operates through two segments, Exploration and Production, and Refining & Marketing. The company also engages in the refining and marketing of petroleum products; transportation of oil and natural gas; and production of liquefied petroleum gas, ethane/propane, naphtha, superior kerosene oil, low sulphur high stock, aviation turbine fuel, mineral turpentine oil, and high speed diesel.

In addition, it generates electric power through 726.6 megawatts (MW) gas based power project in Tripura; 51 MW wind power project in Bhuj, Gujarat; and 102 MW wind power project in Jaisalmer, Rajasthan, as well as generates solar power through a total installed capacity of 31 MW. The company was incorporated in 1993 and is based in New Delhi, India.



Consolidated Balance Sheet				
(in millions of INR)				
Particulars	As at March 31, 2021		As at March 31, 2020	
ASSETS				
Non-Current Assets				
Tangible Assets	1,30,482.51	40.97%	1,27,518.10	42.98%
Intangible Assets	217.25	0.07%	180.96	0.06%
Capital work-in-progress	24,811.29	7.79%	20,016.58	6.75%
Non - Current Investments	81,376.44	25.55%	72,429.99	24.41%
Deferred Tax Asset (net)	0	0.00%	0	0.00%
Other Non-Current Assets	32,323.44	10.15%	32,157.69	90.90%
Total Non-Current Assets	2,86,676.13		2,69,694.75	90.90%
Current Assets		0.00%		0.00%
Current Investments	0	0.00%	0	0.00%
Inventories	8,474.47	2.66%	8,566.62	2.89%
Trade Receivables	7,797.33	2.45%	4,777.39	1.61%
Cash & Cash Equivalents	302.55	0.10%	968.23	0.33%
Short Term Loans and Advances	383.47	0.12%	511.73	0.17%
Other Current Assets	14,819.63	4.65%	12,162.03	4.10%
Total Current Assets	31,777.45	9.98%	26,986.00	9.10%
Total Assets	3,18,453.58	100.00%	2,96,680.75	100.00%
EQUITY AND LIABILITIES				
Equity Share Capital	6,290.14	1.98%	6,290.15	2.12%
Reserve and Surplus	1,98,268.43	62.26%	1,88,047.94	63.38%
Total Shareholders Funds	2,04,558.57	64.23%	1,94,338.09	65.50%
Minority Interest	-	-	-	-
LIABILITIES				
Non-Current Liabilities				
Long Term Borrowings	6,327.52	1.99%	2,245.10	0.76%
Deferred Tax Liabilities (net)	27,473.37	8.63%	26,344.10	8.88%
Other Long Term Liabilities	12,729.05	4.00%	5,247.24	1.77%
Long Term Provisions	30,535.18	9.59%	27,939.21	9.42%
Total Non-Current liabilities	77,065.12	24.20%	61,775.64	20.82%
Current Liabilities		0.00%		0.00%
Short Term Borrowings	8,695.14	2.73%	11,704.01	3.94%
Trade Payables	6,376.65	2.00%	7,113.63	2.40%
Other Current Liabilities	20,372.28	6.40%	20,651.84	6.96%
Short Term Provisions	1,385.83	0.44%	1,097.53	0.37%
Total Current Liabilities	36,829.90	11.57%	40,567.02	13.67%
Total Equity and Liabilities	3,18,453.58	100.00%	2,96,680.75	100.00%

Consolidated Income Statement				
(in millions of INR)				
Particulars	As at March 31, 2021		As at March 31, 2020	
INCOME				
Revenue from operations	67,836.99	90.17%	95,653.64	93.53%
Other Income	7,142.51	9.494270148	6,105.03	5.97%
Total Revenue	75,229.69	100.00%	1,02,270.87	100.00%
EXPENSES				
Cost of Materials Consumed	6,664.78	8.86%	7,654.91	7.48%
Operating and Direct Expenses	5,607.37	7.45%	6,305.10	6.17%
Finance Costs	2,214.54	2.94%	2,823.68	2.76%
Employee Benefit Expenses	10,126.54	13.46%	11,512.42	11.26%
Depreciation and Amortisation Expenses	16,327.38	21.70%	18,616.86	18.20%
Other Expenses	16,327.38	21.70%	42,378.09	41.44%
Total Expenses	60,201.93	80.02%	77,003.13	75.29%
Profit/Loss Before Exceptional, ExtraOrdinary	15,028	19.98%	25,268	24.71%
Exceptional Items	1,375.03	1.83%	-4,899.05	-4.79%
Profit/Loss Before Tax	16,403	21.80%	20,369	19.92%
Tax Expenses - Continued Operations				
Current Tax	3,056.00	4.06%	7,410.00	7.25%
Less: MAT Credit Entitlement	0	0.00%	0	0.00%
Deferred Tax	951.4	1.26%	-124.58	-0.12%
Other Direct Taxes	0	0.00%	0	0.00%
Total Tax Expenses	5,156.35	6.85%	6,924.15	6.77%
Profit/Loss for the Period	11,246.44	14.95%	13,444.54	13.15%
Minority Interest	-5,094.76	-6.77%	-652.66	-0.64%
Total Comprehensive Profit/Loss	16,248.69	21.60%	10,803.60	10.56%

FINANCIAL RATIOS				
			2021	2020
Profitability	Return on Assets (ROA) %		3.53%	4.53%
	(Net Profit after Tax/Total Assets)			
	Net Profit Margin (EAIT/Total Revenue)		14.95%	13.15%
	Return on Equity (ROE) %		5.50%	6.92%
	(Net Profit after Tax/Shareholder Equity)			
Leverage	Debt-to-Equity (Total Debt/ Shareholder		0.07	0.07
	Debt (Total Debt / Total Assets)		0.05	0.05
Efficiency	Asset Turnover (Net Sales/Total Assets)		0.24	0.34
	Inventory Turnover		8.88	11.94
	(Total Sales/Average Inventory)			
Liquidity	Quick Ratio		0.63	0.45
	(Quick Assets/Current Liabilities)			
	Current Ratio		0.86	0.67
	(Current Assets/Current Liabilities)			

Du Pont Analysis - 2020									
Net Income	13,445								
EBT	20,369								
EBIT	25,268								
Revenue	1,02,271								
Total Assets	2,96,681								
Total Equity	1,94,338								
ROE=	<u>Net Income</u>	*	<u>Revenue</u>	*	<u>TA</u>				
	Revenue		TA		TE				
ROE=	0.131460112	*	0.344716905	*	1.526622				
ROE=	0.069181188								
ROE (from above) =	6.918118831								
ROE (calculated) =	6.92%								

Extended 5-factor Du Pont Analysis									
ROE=	<u>Net Income</u>	*	<u>EBT</u>	*	<u>EBIT</u>	*	<u>Revenue</u>	*	<u>TA</u>
	EBT		EBIT		Revenue		TA		TE
ROE=	0.66005914	*	0.806114437	*	0.247067	*	0.344717	*	1.526622
ROE=	0.069181188								
ROE (from above) =	6.918118831								
ROE (calculated) =	6.92%								

Du Pont Analysis - 2021									
Net Income	11,246								
EBT	16,403								
EBIT	15,028								
Revenue	75,230								
Total Assets	3,18,454								
Total Equity	2,04,559								
ROE=	<u>Net Income</u>	*	<u>Revenue</u>	*	<u>TA</u>				
	Revenue		TA		TE				
ROE=	0.149494701	*	0.236234399	*	1.556784				
ROE (from above) =	0.05497907								
ROE (calculated) =	5.50%								
Extended 5-factor Du Pont Analysis									
ROE=	<u>Net Income</u>	*	<u>EBT</u>	*	<u>EBIT</u>	*	<u>Revenue</u>	*	<u>TA</u>
	EBT		EBIT		Revenue		TA		TE
ROE=	0.68564189		1.091499332		0.199758		0.236234		1.556784
ROE (from above) =	0.05497907								
ROE (calculated) =	5.50%								

GAIL India Ltd

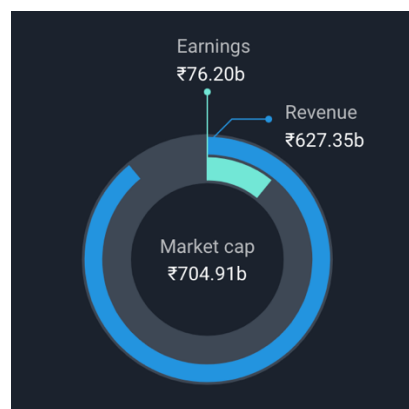
About the Company

Founded	Employees	CEO	Website
1984	4,705	Manoj Jain	https://www.gailonline.com

GAIL (India) Limited operates as a natural gas processing and distribution company in India and internationally. The company operates through Transmission Services, Natural Gas Marketing, Petrochemicals, LPG and Other Liquid Hydrocarbons, and Other segments. It is involved in the transmission, distribution, and marketing of natural gas to the power, city gas distribution, fertilizer, industrial, automotive, and other sectors.

The company also produces, markets, and trades in liquefied natural gas (LNG); markets liquefied petroleum gas (LPG), propane, pentane, naphtha, mixed fuel oil, propylene, and hydrogenated C4 mix; and manufactures petrochemicals, such as high-density polyethylene and linear low density polyethylene under the brand names of G-Lex and G-Lene. In addition, it operates a network of compressed natural gas stations; and provides piped natural gas to household, commercial, and industrial applications, as well as has interests in 11 exploration and production blocks located in Assam-Arakan, Cambay, Cauvery, Gujarat Kutch, and Myanmar basins covering an area of 2,170 square kilometres. Further, the company offers telecommunication services through GAILTEL; and generates, transmits, and distributes electric power through 118 MW wind power plant and 12.26 MW solar power plant. Additionally, it engages in the chartering of LNG vessels.

The company owns and operates approximately 13,700 km of natural gas pipelines; 2,038 km LPG pipeline transmission network; and five gas processing plants for production of LPG, propane, pentane, naphtha, etc. GAIL (India) Limited was incorporated in 1984 and is headquartered in New Delhi, India.



Consolidated Balance Sheet				
Particulars	(in millions of INR)			
	As at March 31, 2021		As at March 31, 2020	
ASSETS				
Non-Current Assets				
Tangible Assets	34,202.45	46.65%	31,772.04	46.36%
Intangible Assets	2,295.49	3.13%	1,872.94	2.73%
Capital work-in-progress	11,903.41	16.24%	10,581.89	15.44%
Non - Current Investments	9,255.34	12.62%	7,498.47	10.94%
Deferred Tax Asset (net)	0	0.00%	0	0.00%
Other Non-Current Assets	2,934.95	4.00%	2,592.47	3.78%
Total Non-Current Assets	63,657.33	86.83%	57,419.69	83.78%
Current Assets		0.00%		0.00%
Current Investments	468.48	0.64%	0	0.00%
Inventories	2,603.81	3.55%	2,960.08	4.32%
Trade Receivables	3,392.33	4.63%	4,546.84	6.63%
Cash & Cash Equivalents	1,361.83	1.86%	803.91	1.17%
Short Term Loans and Advances	684.65	0.93%	1,074.88	1.57%
Other Current Assets	1,142.01	1.56%	1,728.23	2.52%
Total Current Assets	9,653.11	13.17%	11,113.94	16.22%
Total Assets	73,310.44	100.00%	68,533.63	100.00%
EQUITY AND LIABILITIES				
Equity Share Capital	4,440.39	6.06%	4,510.14	6.58%
Reserve and Surplus	42,170.76	57.52%	39,460.96	57.58%
Total Shareholders Funds	46,611.15	63.58%	43,971.10	64.16%
Minority Interest	28.17	0.04%	4.75	0.01%
LIABILITIES				
Non-Current Liabilities				
Long Term Borrowings	4,827.08	6.58%	3,612.12	5.27%
Deferred Tax Liabilities (net)	4,502.23	6.14%	4,497.19	6.56%
Other Long Term Liabilities	5,605.64	7.65%	4,485.98	6.55%
Long Term Provisions	547.69	0.75%	529.67	0.77%
Total Non-Current liabilities	15,482.64	21.12%	13,124.96	19.15%
Current Liabilities		0.00%		0.00%
Short Term Borrowings	738.5	1.01%	1,799.70	2.63%
Trade Payables	4,326.35	5.90%	4,128.43	6.02%
Other Current Liabilities	5,339.48	7.28%	4,754.40	6.94%
Short Term Provisions	812.32	1.11%	755.04	1.10%
Total Current Liabilities	11,216.65	15.30%	11,437.57	16.69%
Total Equity and Liabilities	73,310.44	100.00%	68,533.63	100.00%

Consolidated Income Statement				
Particulars	(in millions of INR)			
	As at March 31, 2021		As at March 31, 2020	
INCOME				
Revenue from operations	57,371.91	98.08%	72,508.42	97.91%
Other Income	1,120.20	1.92%	1,546.43	2.09%
Total Income	58,492	100.00%	74,055	100.00%
EXPENSES				
Cost of Materials Consumed	3,905.88	6.68%	4,411.97	5.96%
Changes In Inventories	440.2	0.75%	-427.99	-0.58%
Finance Costs	179.27	0.31%	308.94	0.42%
Employee Benefit Expenses	1,645.89	2.81%	1,633.74	2.21%
Depreciation and Amortisation Expenses	2,173.82	3.72%	2,080.16	2.81%
Other Expenses	4,757.05	8.13%	4,987.56	6.73%
Total Expenses	52,481	89.72%	65,873	88.95%
Profit/Loss Before Exceptional, ExtraOrdinary	6,010.87	10.28%	8,182.34	11.05%
Exceptional Items	0	0.00%	0	0.00%
Profit/Loss Before Tax	6,010.87	10.28%	8,182.34	11.05%
Tax Expenses - Continued Operations				
Current Tax	1,583	2.71%	2,116.20	2.86%
Less: MAT Credit Entitlement	0	0.00%	0	0.00%
Deferred Tax	0	0.00%	-2,102.07	-2.84%
Other Direct Taxes	0	0.00%	0	0.00%
Total Tax Expenses	0	0.00%	900.17	1.22%
Profit/Loss for the Period	4,428.24	7.57%	7,268.04	9.81%
Minority Interest	-6.47	-0.01%	-92.59	-0.13%
Total Comprehensive Profit/Loss	6,136	10.49%	9,422	12.72%

FINANCIAL RATIOS				
			2021	2020
Profitability	Return on Assets (ROA) % (Net Profit after Tax/Total Assets)		8.37%	13.75%
	Net Profit Margin (EAIT/Total Revenue)		7.57%	9.81%
	Return on Equity (ROE) % (Net Profit after Tax/Shareholder Equity)		9.50%	21.43%
Leverage	Debt-to-Equity (Total Debt/ Shareholder Equity)		0.12	0.12
	Debt (Total Debt / Total Assets)		0.08	0.08
Efficiency	Asset Turnover (Net Sales/Total Assets)		0.80	1.08
	Inventory Turnover (Total Sales/Average Inventory)		22.46	25.02
Liquidity	Quick Ratio (Quick Assets/Current Liabilities)		0.63	0.71
	Current Ratio (Current Assets/Current Liabilities)		0.86	0.97

Du Pont Analysis - 2020									
Net Income	9,422								
EBT	8,182								
EBIT	8,182								
Revenue	74,055								
Total Assets	68,534								
Total Equity	43,971								
ROE=	<u>Net Income</u>	*	<u>Revenue</u>	*	<u>TA</u>				
	Revenue		TA		TE				
ROE=	0.127230695	*	1.0805622	*	1.558606				
ROE=	0.214278242								
ROE (from above) =	21.42782418								
ROE (calculated) =	21.43%								
Extended 5-factor Du Pont Analysis									
ROE=	<u>Net Income</u>	*	<u>EBT</u>	*	<u>EBIT</u>	*	<u>Revenue</u>	*	<u>TA</u>
	EBT		EBIT		Revenue		TA		TE
ROE=	1.151510448	*	1	*	0.11049	*	1.080562	*	1.558606
ROE=	0.214278242								
ROE (from above) =	21.42782418								
ROE (calculated) =	21.43%								

Du Pont Analysis - 2021									
Net Income	6,136								
EBT	6,011								
EBIT	6,011								
Revenue	58,492								
Total Assets	73,310								
Total Equity	46,611								
ROE=	<u>Net Income</u>	*	<u>Revenue</u>	*	<u>TA</u>				
	Revenue		TA		TE				
ROE=	0.104909021	*	0.797868762	*	1.572809				
ROE (from above) =	0.131649831								
ROE (calculated) =	13.16%								
Extended 5-factor Du Pont Analysis									
ROE=	<u>Net Income</u>	*	<u>EBT</u>	*	<u>EBIT</u>	*	<u>Revenue</u>	*	<u>TA</u>
	EBT		EBIT		Revenue		TA		TE
ROE=	1.02087551		1		0.102764		0.797869		1.572809
ROE (from above) =	0.131649831								
ROE (calculated) =	13.16%								

Reliance Industries Ltd

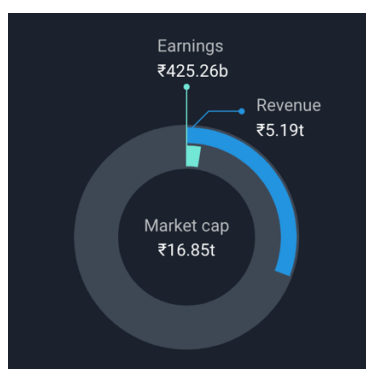
About the Company

Founded	Employees	CEO	Website
1973	236,334	Mukesh Ambani	https://www.ril.com

Reliance Industries Limited engages in hydrocarbon exploration and production, petroleum refining and marketing, petrochemicals, textile, retail, digital, and financial services businesses worldwide. The company produces and markets petroleum products, such as liquefied petroleum gas, propylene, naphtha, gasoline, jet/aviation turbine fuel, kerosene oil, diesel, Sulphur, and petroleum coke. It also provides petrochemicals, including high-density and low-density polyethylene (PE), linear low density PE, polyester fibers and yarns, polypropylene, polyvinyl chloride, polyester yarn, purified terephthalic acid, ethylene glycols and oxide, paraxylene, ortho xylene, benzene, linear alkyl benzene and paraffin, poly butadiene rubber, styrene butadiene rubber, butyl rubber, and polyethylene terephthalate.

In addition, the company manufactures and markets yarns, fabrics, apparel, and auto furnishings; explores, develops, and produces crude oil and natural gas; and operates various stores comprising neighbourhood, supermarket, hypermarket, wholesale cash and carry, specialty, online, pharmacy, and grocery stores, as well as stores that offer apparel, beauty and cosmetics, accessories, footwear, consumer electronics, connectivity products, and others. As of March 31, 2021, it operated 12,711 retail stores. Further, it provides range of digital services under the Jio brand name; and non-banking financial and insurance broking services. Further, it operates news and entertainment platforms, finance portals, fashion and lifestyle portals, and online ticket booking platforms, as well as Network18 and television channels; publishes magazines; and offers highway hospitality and fleet management services.

The company was incorporated in 1973 and is based in Mumbai, India.



Consolidated Balance Sheet				
Particulars	(in millions of INR)			
	As at March 31, 2021		As at March 31, 2020	
ASSETS				
Non-Current Assets				
Tangible Assets	4,51,066.00	34.14%	4,35,920.00	37.39%
Intangible Assets	79,980.00	6.05%	86,479.00	7.42%
Capital work-in-progress	71,171.00	5.39%	59,096.00	5.07%
Non - Current Investments	2,12,382.00	16.07%	2,03,852.00	17.48%
Deferred Tax Asset (net)	1,147.00	0.09%	2,900.00	0.25%
Other Non-Current Assets	64,977.00	4.92%	37,407.00	3.21%
Total Non-Current Assets	9,48,201.00	71.77%	9,07,655.00	77.85%
Current Assets				
Current Investments	1,52,446.00	11.54%	72,915.00	6.25%
Inventories	81,672.00	6.18%	73,903.00	6.34%
Trade Receivables	19,014.00	1.44%	19,656.00	1.69%
Cash & Cash Equivalents	17,397.00	1.32%	30,920.00	2.65%
Short Term Loans and Advances	65.00	0.00%	669.00	0.06%
Other Current Assets	1,02,417.00	7.75%	60,197.00	5.16%
Total Current Assets	3,73,011.00	28.23%	2,58,260.00	22.15%
Total Assets	13,21,212.00	100.00%	11,65,915.00	100.00%
EQUITY AND LIABILITIES				
Equity Share Capital	6,445.00	0.49%	6,339.00	0.54%
Reserve and Surplus	6,93,727.00	52.51%	4,42,827.00	37.98%
Total Shareholders Funds	7,00,172.00	52.99%	4,49,166.00	38.52%
Minority Interest	99,260.00	7.51%	12,181.00	1.04%
LIABILITIES				
Non-Current Liabilities				
Long Term Borrowings	1,63,683.00	12.39%	1,97,631.00	16.95%
Deferred Tax Liabilities (net)	37,001.00	2.80%	54,123	4.64%
Other Long Term Liabilities	40,903.00	3.10%	38,108.00	3.27%
Long Term Provisions	2,625.00	0.20%	1,790.00	0.15%
Total Non-Current liabilities	13,423	1.02%	12,065	1.03%
Current Liabilities				
Short Term Borrowings	60,081.00	4.55%	93,786.00	8.04%
Trade Payables	1,08,897.00	8.24%	96,799.00	8.30%
Other Current Liabilities	1,06,086.00	8.03%	2,20,440.00	18.91%
Short Term Provisions	2,504.00	0.19%	1,890.00	0.16%
Total Current Liabilities	2,77,568.00	21.01%	4,12,915.00	35.42%
Total Equity and Liabilities	13,21,212.00	100.00%	11,65,915.00	100.00%

Consolidated Income Statement				
Particulars	(in millions of INR)			
	As at March 31, 2021		As at March 31, 2020	
INCOME				
Revenue from operations	4,66,924.00	96.62%	5,97,535.00	97.84%
Other Income	16,327.00	3.38%	13,164.00	2.16%
Total Income	4,83,251.00	100.00%	6,10,699	100.00%
EXPENSES				
Cost of Materials Consumed	1,99,915.00	41.37%	2,60,621.00	42.68%
Operating and Direct Expenses	19,978.00	4.13%	24,155.00	3.96%
Finance Costs	21,189.00	4.38%	22,027.00	3.61%
Employee Benefit Expenses	14,817.00	3.07%	14,075.00	2.30%
Depreciation and Amortisation Expenses	26,572.00	5.50%	22,203.00	3.64%
Other Expenses	59,680.00	12.35%	67,459.00	11.05%
Total Expenses	4,33,948.00	89.80%	5,52,756.00	90.51%
Profit/Loss Before Exceptional, ExtraOrdinary Items And Tax	49,303.00	10.20%	57,943.00	9.49%
Exceptional Items	5,642.00	1.17%	-4,444.00	-0.73%
Profit/Loss Before Tax	54,945	11.37%	53,499	8.76%
Tax Expenses - Continued Operations				
Current Tax	2,205.00	0.46%	8,630	1.41%
Less: MAT Credit Entitlement	0	0.00%	0	0.00%
Deferred Tax	-483	-0.10%	5,096.00	0.83%
Other Direct Taxes	0	0.00%	0	0.00%
Total Tax Expenses	1,722.00	0.36%	13,726.00	2.25%
Profit/Loss for the Period	53,223.00	11.01%	39,773.00	6.51%
Minority Interest	-4,611.00	-0.95%	-526	-0.09%
Consolidated Profit/Loss After MI And Associates	49,128.00	10.17%	39,354.00	6.44%

FINANCIAL RATIOS				
			2021	2020
Profitability	Return on Assets (ROA) % (Net Profit after Tax/Total Assets)		3.72%	3.38%
	Net Profit Margin (EAIT/Total Revenue)		11.01%	6.51%
	Return on Equity (ROE) % (Net Profit after Tax/Shareholder Equity)		7.60%	8.76%
Leverage	Debt-to-Equity (Total Debt/ Shareholder Equity)		0.32	0.65
	Debt (Total Debt / Total Assets)		0.17	0.25
Efficiency	Asset Turnover (Net Sales/Total Assets)		0.37	0.52
	Inventory Turnover (Total Sales/Average Inventory)		5.92	8.26
Liquidity	Quick Ratio (Quick Assets/Current Liabilities)		1.05	0.45
	Current Ratio (Current Assets/Current Liabilities)		1.34	0.63

Du Pont Analysis - 2020									
Net Income	39,354								
EBT	53,499								
EBIT	57,943								
Revenue	6,10,699								
Total Assets	11,65,915								
Total Equity	4,49,166								
ROE=	<u>Net Income</u>	*	<u>Revenue</u>	*	<u>TA</u>				
	Revenue		TA		TE				
ROE=	0.064440911	*	0.523793759	*	2.595733				
ROE=	0.087615714								
ROE (from above) =	8.761571446								
ROE (calculated) =	8.76%								
Extended 5-factor Du Pont Analysis									
ROE=	<u>Net Income</u>	*	<u>EBT</u>	*	<u>EBIT</u>	*	<u>Revenue</u>	*	<u>TA</u>
	EBT		EBIT		Revenue		TA		TE
ROE=	0.735602535	*	0.923303937	*	0.09488	*	0.523794	*	2.595733
ROE=	0.087615714								
ROE (from above) =	8.761571446								
ROE (calculated) =	8.76%								

Du Pont Analysis - 2021									
Net Income	49,128								
EBT	54,945								
EBIT	49,303								
Revenue	4,83,251								
Total Assets	13,21,212								
Total Equity	7,00,172								
ROE=	<u>Net Income</u>	*	<u>Revenue</u>	*	<u>TA</u>				
	Revenue		TA		TE				
ROE=	0.101661455	*	0.365763405	*	1.886982				
ROE (from above) =	0.070165616								
ROE (calculated) =	7.02%								
Extended 5-factor Du Pont Analysis									
ROE=	<u>Net Income</u>	*	<u>EBT</u>	*	<u>EBIT</u>	*	<u>Revenue</u>	*	<u>TA</u>
	EBT		EBIT		Revenue		TA		TE
ROE=	0.89413049		1.114435227		0.102024		0.365763		1.886982
ROE (from above) =	0.070165616								
ROE (calculated) =	7.02%								

Hindustan Petroleum Corporation Ltd

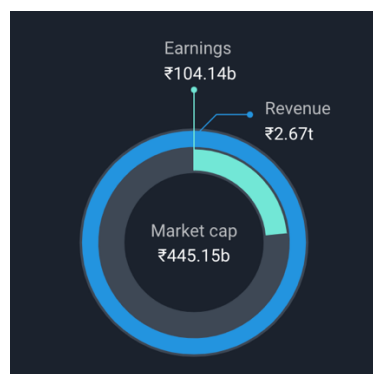
About the Company

Founded	Employees	CEO	Website
1952	9,448	Mukesh Surana	https://www.hindustanpetroleum.com

Hindustan Petroleum Corporation Limited refines and markets petroleum products in India and internationally. The company operates through Downstream Petroleum and All Other segments. It offers petrol, diesel, kerosene, liquefied petroleum gas (LPG), naphtha lubricants, specialties, and greases, as well as aviation turbine fuel; and markets and exports bulk fuels, bitumen, solvents, jet and marine fuel, marine lubes, household insecticides, hexane, propylene, jute batch oil, turpentine oil, carbon black feed stock, molten sulphur, and superior kerosene oil (SKO).

The company is also involved in international trade activities, including crude oil imports, petroleum product imports/exports, import/export registration, shipping, supplies for domestic markets, and product exchange with other Indian oil marketing companies and oil price risk management. In addition, it offers LPG products under the HP Gas brand, as well as bulk LPG products for industries; and operates retail petrol pumps and pipelines for the transportation of petroleum products. Further, the company explores for and produces hydrocarbons, as well as provides management services for exploration and production blocks; and operates sugar ethanol-cogen plants in Bihar, wind power plants in Maharashtra and Rajasthan, and solar power plant in Karnataka. As of March 31, 2021, it operated through a marketing network of 133 regional offices; 70 depots; 51 LPG bottling plants; 46 aviation service facilities; 18,634 retail outlets; 1,638 SKO and light diesel oil dealers; and 6,192 LPG distributors, as well as 41 terminals, installation, and tap off points.

The company was incorporated in 1952 and is headquartered in Mumbai, India. Hindustan Petroleum Corporation Limited is a subsidiary of Oil and Natural Gas Corporation Limited.



Consolidated Balance Sheet				
	(in millions of INR)			
Particulars	As at March 31, 2021		As at March 31, 2020	
ASSETS				
Non-Current Assets				
Tangible Assets	49,260.87	37.54%	47,746.94	41.88%
Intangible Assets	639.66	0.49%	543.47	0.48%
Capital work-in-progress	24,053.26	18.33%	17,143.69	15.04%
Non - Current Investments	9,575.17	7.30%	7,166.74	6.29%
Deferred Tax Asset (net)	0	0.00%	0	0.00%
Other Non-Current Assets	2,785.31	2.12%	2,701.65	2.37%
Total Non-Current Assets	87,628	66.77%	76,718.26	67.29%
Current Assets				
Current Investments	5,417.58	4.13%	5,344.86	4.69%
Inventories	28,592.17	21.79%	19,141.19	16.79%
Trade Receivables	6856.31	5.22%	3,922.72	3.44%
Cash & Cash Equivalents	237.2	0.18%	113.15	0.10%
Short Term Loans and Advances	124.63	0.09%	407.84	0.36%
Other Current Assets	2,382.85	1.82%	8,362.81	7.34%
Total Current Assets	43,610.74	33.23%	37,292.57	32.71%
Total Assets	1,31,239	100.00%	1,14,011	100.00%
EQUITY AND LIABILITIES				
Equity Share Capital	1,452.41	1.11%	1,524.21	1.34%
Reserve and Surplus	34,733.70	26.47%	27,438.15	24.07%
Total Shareholders Funds	36,186.11	27.57%	28,962.36	25.40%
Minority Interest	0	0.00%	0	0.00%
LIABILITIES				
Non-Current Liabilities				
Long Term Borrowings	27,069.72	20.63%	22,287.17	19.55%
Deferred Tax Liabilities (net)	5,511.09	4.20%	5,491.53	4.82%
Other Long Term Liabilities	370.93	0.28%	212.18	0.19%
Long Term Provisions	51.66	0.04%	50.2	0.04%
Total Non-Current liabilities	33,003.40	25.15%	28,041	24.60%
Current Liabilities				
Short Term Borrowings	14,819.37	11.29%	16,145.80	14.16%
Trade Payables	17,697.27	13.48%	11,295	9.91%
Other Current Liabilities	26,388.15	20.11%	26,617.93	23.35%
Short Term Provisions	3,144.88	2.40%	2,948.44	2.59%
Total Current Liabilities	62,049.67	47.28%	57,007.39	50.00%
Total Equity and Liabilities	1,31,239.18	100.00%	1,14,010.83	100.00%

Consolidated Income Statement				
	(in millions of INR)			
Particulars	As at March 31, 2021		As at March 31, 2020	
INCOME				
Revenue from operations	2,33,248.45	98.88%	2,69,091.53	99.38%
Other Income	2,643.73	1.12%	1,681.62	0.62%
Total Income	2,35,892	100.00%	2,70,773	100.00%
EXPENSES				
Cost of Materials Consumed	41,212.33	17.47%	59,906.49	22.12%
Operating and Direct Expenses	6,401.92	2.71%	6,141.13	2.27%
Finance Costs	963.28	0.41%	1,138.85	0.42%
Employee Benefit Expenses	3,219.42	1.36%	3,224.06	1.19%
Depreciation and Amortisation Expense	3,625.47	1.54%	3,369.87	1.24%
Other Expenses	7,068.75	3.00%	7,277.74	2.69%
Total Expenses	2,21,834	94.04%	2,67,938	98.95%
Profit/Loss Before Exceptional, E	14,058	5.96%	2,835	1.05%
Exceptional Items	0	0.00%	-1,003	-0.37%
Profit/Loss Before Tax	14,058	5.96%	1,832	0.68%
Tax Expenses - Continued Operations				
Current Tax	3,569.56	1.51%	166.95	0.06%
Less: MAT Credit Entitlement	0	0.00%	0	0.00%
Deferred Tax	-52.08	-0.02%	116.73	0.04%
Other Direct Taxes	16.63	0.01%	-1,548.12	-0.57%
Total Tax Expenses	3,534.11	1.50%	-1,264.44	-0.47%
Profit/Loss for the Period	10,524.23	4.46%	3,096.90	1.14%
Minority Interest	138.66	0.06%	-458.17	-0.17%
Total Comprehensive Profit/Loss	10,663	4.52%	2,639	0.97%

FINANCIAL RATIOS				
			2021	2020
Profitability	Return on Assets (ROA) % (Net Profit after Tax/Total Assets)		8.12%	2.31%
	Net Profit Margin (EAIT/Total Revenue)		4.46%	1.14%
	Return on Equity (ROE) % (Net Profit after Tax/Shareholder Equity)		29.08%	9.11%
Leverage	Debt-to-Equity (Total Debt/ Shareholder Equity)		1.16	1.33
	Debt (Total Debt / Total Assets)		0.32	0.34
Efficiency	Asset Turnover (Net Sales/Total Assets)		1.80	2.37
	Inventory Turnover (Total Sales/Average Inventory)		8.25	14.15
Liquidity	Quick Ratio (Quick Assets/Current Liabilities)		0.24	0.32
	Current Ratio (Current Assets/Current Liabilities)		0.70	0.65

Du Pont Analysis - 2020									
Net Income	2,639								
EBT	1,832								
EBIT	2,835								
Revenue	2,70,773								
Total Assets	1,14,011								
Total Equity	28,962								
ROE=	<u>Net Income</u>	*	<u>Revenue</u>	*	<u>TA</u>				
	Revenue		TA		TE				
ROE=	0.009745169	*	2.374977447	*	3.936517				
ROE=	0.091108943								
ROE (from above) =	9.110894278								
ROE (calculated) =	9.11%								
Extended 5-factor Du Pont Analysis									
ROE=	<u>Net Income</u>	*	<u>EBT</u>	*	<u>EBIT</u>	*	<u>Revenue</u>	*	<u>TA</u>
	EBT		EBIT		Revenue		TA		TE
ROE=	1.439993233	*	0.646281464	*	0.010471	*	2.374977	*	3.936517
ROE=	0.091108943								
ROE (from above) =	9.110894278								
ROE (calculated) =	9.11%								

Du Pont Analysis - 2021									
Net Income	10,663								
EBT	14,058								
EBIT	14,058								
Revenue	2,35,892								
Total Assets	1,31,239								
Total Equity	36,186								
ROE=	<u>Net Income</u>	*	<u>Revenue</u>	*	<u>TA</u>				
	Revenue		TA		TE				
ROE=	0.045202389	*	1.797421928	*	3.626783				
ROE (from above) =	0.294668037								
ROE (calculated) =	29.47%								
Extended 5-factor Du Pont Analysis									
ROE=	<u>Net Income</u>	*	<u>EBT</u>	*	<u>EBIT</u>	*	<u>Revenue</u>	*	<u>TA</u>
	EBT		EBIT		Revenue		TA		TE
ROE=	0.75847433		1		0.059596		1.797422		3.626783
ROE (from above) =	0.294668037								
ROE (calculated) =	29.47%								

Bharat Petroleum Corporation Ltd

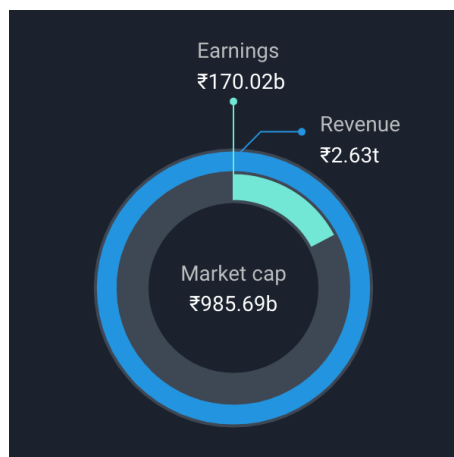
About the Company

Founded	Employees	CEO	Website
1952	9,251	Arun Singh	https://www.bharatpetroleum.com

Bharat Petroleum Corporation Limited refines crude oil and markets petroleum products in India. The company operates through two segments, Downstream Petroleum; and Exploration and Production of Hydrocarbons. It operates fuel stations that sell petrol, diesel, automotive liquefied petroleum gas (LPG), and compressed natural gas.

The company has a network of 15,402 fuel stations with 13,648 fully automated fuel stations. It also provides Bharatgas fuels to approximately 42 million homes; MAK lubricants, such as automotive engine oils, gear oils, greases, and specialties; and jet fuel and services to airlines, as well as operates oil refineries in Mumbai, Bina, Numaligarh, and Kochi. In addition, the company offers industrial fuels products, such as gases, naphtha, diesel, kerosene, white oil, black oil, furnace oil, bitumen, sulphur, and solvents and special products, as well as industrial lubricants. Further, it has participating interests in twenty blocks, including ten blocks in India and ten blocks in other countries; imports and exports of other petroleum products; and owns a network of 2,241 km of multi-product pipelines, as well as engages in the natural gas business.

The company was formerly known as Bharat Refineries Limited and changed its name to Bharat Petroleum Corporation Limited in August 1977. Bharat Petroleum Corporation Limited was incorporated in 1952 and is based in Mumbai, India.



Consolidated Balance Sheet				
	(in millions of INR)			
Particulars	As at March 31, 2021		As at March 31, 2020	
ASSETS				
Non-Current Assets				
Tangible Assets	63,526.50	45.18%	56,687.98	44.82%
Intangible Assets	409.7	0.29%	262.93	0.21%
Capital work-in-progress	7,094.78	5.05%	9,108.09	7.20%
Non - Current Investments	10,889.82	7.75%	10,849.48	8.58%
Deferred Tax Asset (net)	0	0.00%	0	0.00%
Other Non-Current Assets	2,436.17	1.73%	2,657.50	2.10%
Total Non-Current Assets	89,642.19	63.75%	85,405.75	67.53%
Current Assets		0.00%		0.00%
Current Investments	6,794.27	4.83%	5,208.54	4.12%
Inventories	26,756.75	19.03%	20,421.06	16.15%
Trade Receivables	7,827.47	5.57%	5,164.34	4.08%
Cash & Cash Equivalents	7,053.49	5.02%	115.78	0.09%
Short Term Loans and Advances	137.9	0.10%	590.58	0.47%
Other Current Assets	2,392.42	1.70%	9,562.93	7.56%
Total Current Assets	50,962.30	36.25%	41,063.23	32.47%
Total Assets	1,40,604.49	100.00%	1,26,468.98	100.00%
EQUITY AND LIABILITIES				
Equity Share Capital	2,092.91	1.49%	1,966.88	1.56%
Reserve and Surplus	51,595.15	36.70%	31,247.50	24.71%
Total Shareholders Funds	54,544.55	38.79%	33,214.38	26.26%
Minority Interest	28.17	0.02%	4.75	0.00%
LIABILITIES				
Non-Current Liabilities				
Long Term Borrowings	17,032.84	12.11%	20,481.83	16.20%
Deferred Tax Liabilities (net)	4,471.55	3.18%	5,967.29	4.72%
Other Long Term Liabilities	8,209.92	5.84%	6,226.58	4.92%
Long Term Provisions	1,600.51	1.14%	1,574.12	1.24%
Total Non-Current liabilities	31,314.82	22.27%	34,249.82	27.08%
Current Liabilities				
Short Term Borrowings	4,232.81	3.01%	17,721.37	14.01%
Trade Payables	16,245.30	11.55%	12,509.54	9.89%
Other Current Liabilities	32,408.09	23.05%	26,942.87	21.30%
Short Term Provisions	1,858.92	1.32%	1,831.00	1.45%
Total Current Liabilities	54,745.12	38.94%	59,004.78	46.66%
Total Equity and Liabilities	1,40,604.49	100.00%	1,26,468.98	100.00%

Consolidated Income Statement				
	(in millions of INR)			
Particulars	As at March 31, 2021		As at March 31, 2020	
INCOME				
Revenue from operations	2,29,126.04	99.03%	2,83,383.71	99.32%
Other Income	2,253.04	0.97%	1,929.33	0.68%
Total Income	2,31,379	100.00%	2,85,313	100.00%
EXPENSES				
Cost of Materials Consumed	78,778.04	34.05%	1,21,896.01	42.72%
Changes in Inventories	-3,743.56	-1.62%	-1,073	-0.38%
Finance Costs	1,723.41	0.74%	2,637.01	0.92%
Employee Benefit Expenses	4,856.35	2.10%	4,020.51	1.41%
Depreciation and Amortisation	4,334.21	1.87%	4,080.09	1.43%
Other Expenses	16,611.15	7.18%	19,610.24	6.87%
Total Expenses	2,14,923.88	92.89%	2,82,939.98	99.17%
Profit/Loss Before Exceptional	17,491.79	7.56%	3,561.25	1.25%
Exceptional Items	5,265.76	2.28%	-1,310	-0.46%
Profit/Loss Before Tax	22,757.55	9.84%	2,250.90	0.79%
Tax Expenses - Continued Operations				
Current Tax	6,165.29	2.66%	629.96	0.22%
Less: MAT Credit Entitlement	0	0.00%	0	0.00%
Deferred Tax	-1,135	-0.49%	-14.49	-0.01%
Other Direct Taxes	82.17	0.04%	-629.68	-0.22%
Total Tax Expenses	5,112.19	2.21%	-14.21	0.00%
Profit/Loss for the Period	17,645.36	7.63%	2,265.11	0.79%
Minority Interest	-1,154.85	-0.50%	-610.42	-0.21%
Total Comprehensive Profit/Lc	16,164.98	6.99%	3,055.36	1.07%

FINANCIAL RATIOS				
			2021	2020
Profitability	Return on Assets (ROA) % (Net Profit after Tax/Total Assets)		11.50%	2.42%
	Net Profit Margin (EAIT/Total Revenue)		7.63%	0.79%
	Return on Equity (ROE) % (Net Profit after Tax/Shareholder Equity)		32.35%	9.20%
Leverage	Debt-to-Equity (Total Debt/ Shareholder Equity)		0.39	1.15
	Debt (Total Debt / Total Assets)		0.15	0.30
Efficiency	Asset Turnover (Net Sales/Total Assets)		1.65	2.26
	Inventory Turnover (Total Sales/Average Inventory)		8.65	13.97
Liquidity	Quick Ratio (Quick Assets/Current Liabilities)		0.44	0.35
	Current Ratio (Current Assets/Current Liabilities)		0.93	0.70

Du Pont Analysis - 2020									
Net Income	3,055								
EBT	2,251								
EBIT	3,561								
Revenue	2,85,313								
Total Assets	1,26,469								
Total Equity	33,214								
ROE=	<u>Net Income</u> Revenue	*	<u>Revenue</u> TA	*	<u>TA</u> TE				
ROE=	0.010708799	*	2.25599226	*	3.807657				
ROE=	0.091989072								
ROE (from above) =	9.19890722								
ROE (calculated) =	9.20%								
Extended 5-factor Du Pont Analysis									
ROE=	<u>Net Income</u> EBT	*	<u>EBT</u> EBIT	*	<u>EBIT</u> Revenue	*	<u>Revenue</u> TA	*	<u>TA</u> TE
ROE=	1.35739482	*	0.632053352	*	0.012482	*	2.255992	*	3.807657
ROE=	0.091989072								
ROE (from above) =	9.19890722								
ROE (calculated) =	9.20%								

Du Pont Analysis - 2021									
Net Income	16,165								
EBT	22,758								
EBIT	17,492								
Revenue	2,31,379								
Total Assets	1,40,604								
Total Equity	54,545								
ROE=	<u>Net Income</u> Revenue	*	<u>Revenue</u> TA	*	<u>TA</u> TE				
ROE=	0.069863619	*	1.645602356	*	2.577792				
ROE (from above) =	0.296362881								
ROE (calculated) =	29.64%								
Extended 5-factor Du Pont Analysis									
ROE=	<u>Net Income</u> EBT	*	<u>EBT</u> EBIT	*	<u>EBIT</u> Revenue	*	<u>Revenue</u> TA	*	<u>TA</u> TE
ROE=	0.71031284		1.301041803		0.075598		1.645602		2.577792
ROE (from above) =	0.296362881								
ROE (calculated) =	29.64%								

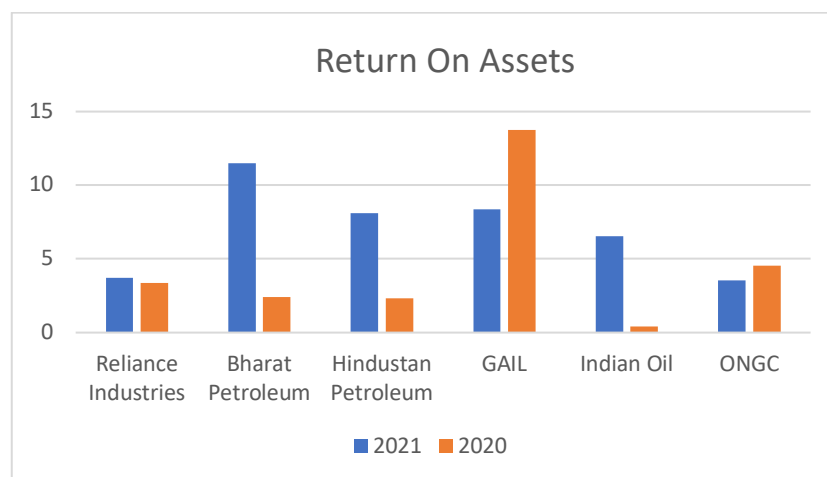
Interpretation / Analysis

1. Return On Assets

The Return on Assets (ROA) ratio shows the relationship between earnings and asset base of the company.

$$ROA = \frac{\text{Net Income}}{\text{Total Assets}}$$

	2021	2020
Reliance Industries	3.72	3.38
Bharat Petroleum	11.5	2.42
Hindustan Petroleum	8.12	2.31
GAIL	8.37	13.75
Indian Oil	6.54	0.42
ONGC	3.53	4.53



Reliance Industries have seen a slight increase in return on assets from 2020 (3.72) to 2021 (3.38).

Bharat Petroleum have seen a gigantic increase from 2.42% in 2020 to 11.5% in 2021.

Hindustan Petroleum's ROA has leaped from 2.31% in 2020 to 8.12% in 2021.

GAIL has seen their ROA go down from 13.75% to 8.37%.

Indian Oil has seen an unreal leap in ROA from 0.42% to 6.54%.

ONGC has had a slight dip in ROA from 4.53% in 2020 to 3.53% in 2021.

Conclusion:

The higher the ratio, the better it is. This is because a higher ratio would indicate that the company can produce relatively higher earnings in comparison to its asset base i.e., more capital efficiency.

2. Net Profit Margin

The net profit margin, or simply net margin, measures how much net income or profit is generated as a percentage of revenue. It is the ratio of net profits to revenues for a company or business segment. Net profit margin is typically expressed as a percentage but can also be represented in decimal form. The net profit margin illustrates how much of each dollar in revenue collected by a company translates into profit.

$$\begin{aligned}\text{Net profit margin} &= \frac{R - COGS - E - I - T}{R} * 100 \\ &= \frac{\text{Net income}}{R} * 100\end{aligned}$$

where:

R = Revenue

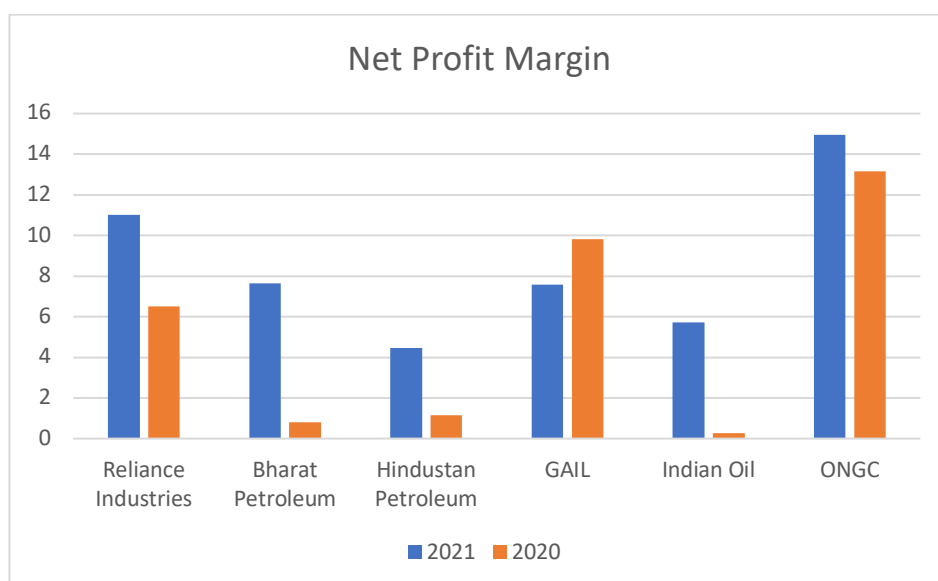
$COGS$ = The cost of goods sold

E = Operating and other expenses

I = Interest

T = Taxes

Net Profit Margin	2021	2020
Reliance Industries	11.01	6.51
Bharat Petroleum	7.63	0.79
Hindustan Petroleum	4.46	1.14
GAIL	7.57	9.81
Indian Oil	5.71	0.27
ONGC	14.95	13.15



Reliance Industries have seen a slight increase in net profit margin from 2020 (6.51) to 2021 (11.01).

Bharat Petroleum have seen a gigantic increase from 0.79% in 2020 to 7.63% in 2021.

Hindustan Petroleum's Net Profit Margin has leaped from 1.14% in 2020 to 4.46% in 2021.

GAIL has seen their NPM go down from 9.81% to 7.57%.

Indian Oil has seen an unreal leap in NPM from 0.27% to 5.71%.

ONGC has had a slight increase in NPM from 13.15% in 2020 to 14.95% in 2021.

Conclusion:

In general, it is noticed that companies have had an increase in net profit margin from 2020 to 2021. A high net profit margin means that a company can effectively control its costs and/or **provide goods or services at a price significantly higher than its costs.**

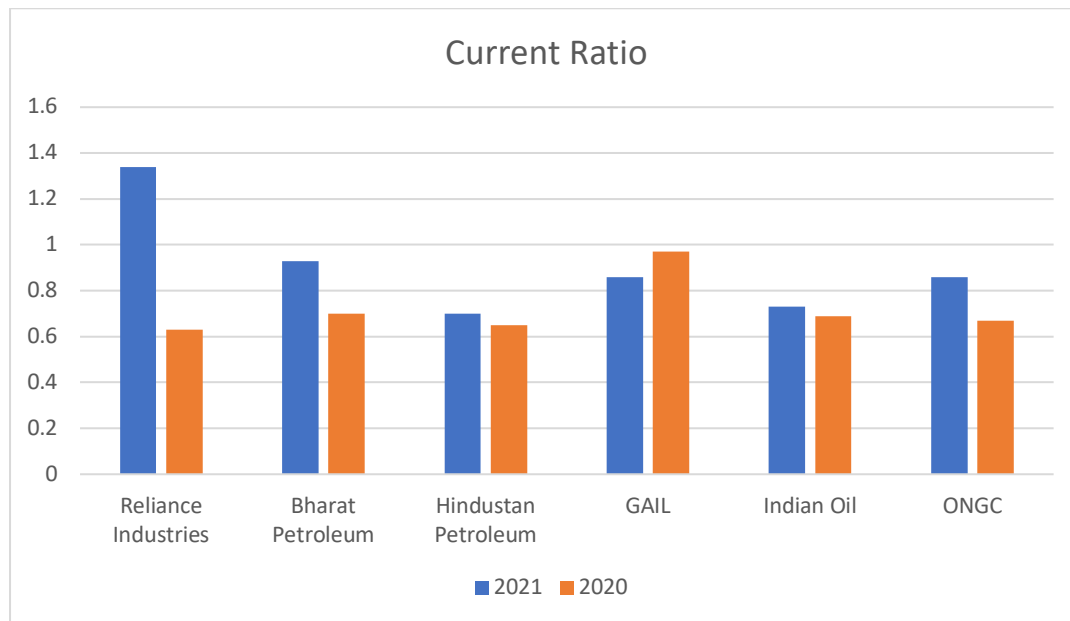
3. Current Ratio

The current ratio is a liquidity ratio that measures a company's ability to pay short-term obligations or those due within one year. It tells investors and analysts how a company can maximize the current assets on its balance sheet to satisfy its current debt and other payables.

A current ratio that is in line with the industry average or slightly higher is generally considered acceptable. A current ratio that is lower than the industry average may indicate a higher risk of distress or default. Similarly, if a company has a very high current ratio compared to its peer group, it indicates that management may not be using its assets efficiently.

$$\text{Current Ratio} = \frac{\text{Current assets}}{\text{Current liabilities}}$$

Current Ratio		
	2021	2020
Reliance Industries	1.34	0.63
Bharat Petroleum	0.93	0.7
Hindustan Petroleum	0.7	0.65
GAIL	0.86	0.97
Indian Oil	0.73	0.69
ONGC	0.86	0.67



Reliance Industries have seen a slight increase in current ratio from 2020 (0.63) to 2021 (1.34).

Bharat Petroleum have seen an increase from 0.7% in 2020 to 0.93% in 2021.

Hindustan Petroleum's current ratio has gone up from 0.65% in 2020 to 0.7% in 2021.

GAIL has seen their current ratio go down from 0.97% to 0.86%.

Indian Oil has seen an increase in current ratio from 0.69% to 0.73%.

ONGC has had a slight increase in current ratio from 0.67% in 2020 to 0.86% in 2021.

Conclusion:

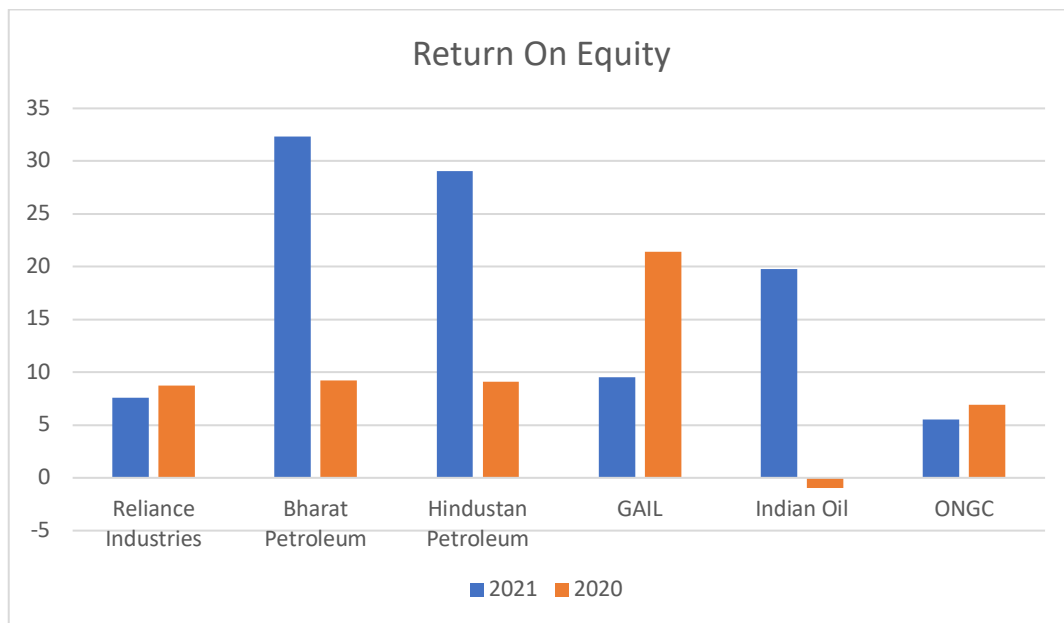
It is observed that 5 out of 6 companies have had a slight increase in current ratio from 2020 to 2021. Theoretically, a high current ratio is a **sign that the company is sufficiently liquid and can easily pay off its current liabilities using its current assets**. Thus, a company with a current ratio of 2.5X is more liquid than a company with a current ratio of 1.5X.

4. Return on Equity

Return on equity (ROE) is a measure of financial performance calculated by dividing net income by shareholders' equity. Because shareholders' equity is equal to a company's assets minus its debt, ROE is considered the return on net assets. ROE is considered a gauge of a corporation's profitability and how efficient it is in generating profits.

$$\text{Return on Equity} = \frac{\text{Net Income}}{\text{Average Shareholders' Equity}}$$

Return on Equity	2021	2020
Reliance Industries	7.6	8.76
Bharat Petroleum	32.35	9.2
Hindustan Petroleum	29.08	9.11
GAIL	9.5	21.43
Indian Oil	19.76	-0.95
ONGC	5.5	6.92



Reliance Industries have seen a slight decrease in ROE from 2020 (8.76) to 2021 (7.6).

Bharat Petroleum have seen an increase from 9.2% in 2020 to 32.35% in 2021.

Hindustan Petroleum's ROE has gone up from 9.11% in 2020 to 29.08% in 2021.

GAIL has seen their ROE go down from 21.43% to 9.5%.

Indian Oil has seen an increase in ROE from -0.95% to 19.76%.

ONGC has had a slight decrease in ROE from 6.92% in 2020 to 5.5% in 2021.

Conclusion:

For stable economics, ROEs more than 12-15% are considered desirable. But the ratio strongly depends on many factors such as industry, economic environment (inflation, macroeconomic risks, etc.).

The higher the ROE, the better. But a higher ROE does not necessarily mean better financial performance of the company. The higher ROE can be the result of high financial leverage, but too high financial leverage is dangerous for a company's solvency.

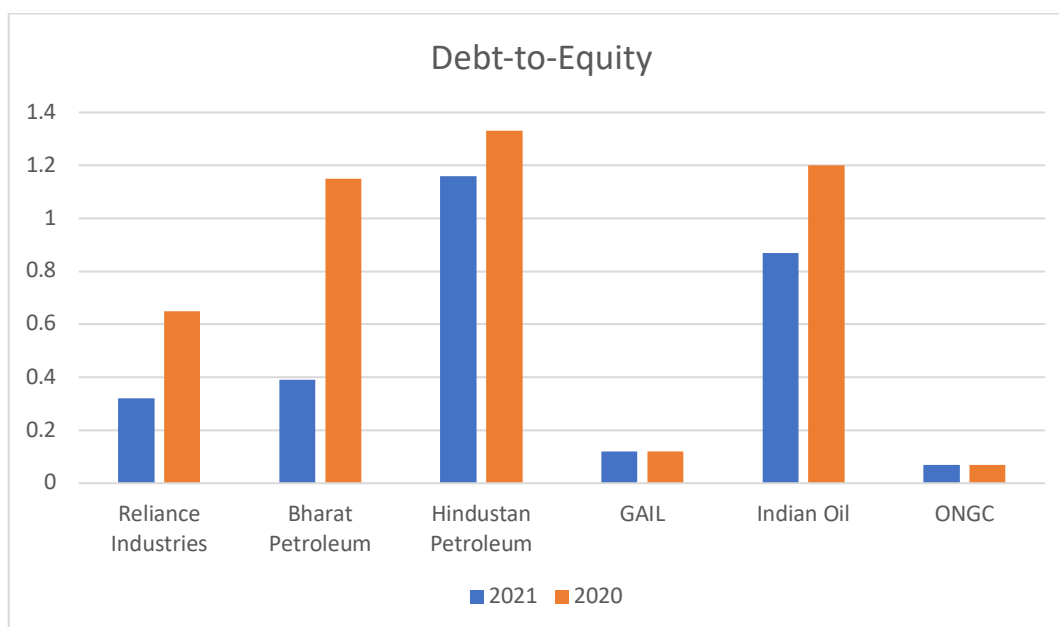
5. Debt to Equity

The debt-to-equity (D/E) ratio is used to evaluate a company's financial leverage and is calculated by dividing a company's total liabilities by its shareholder equity.

The D/E ratio is an important metric used in corporate finance. It is a measure of the degree to which a company is financing its operations through debt versus wholly owned funds. More specifically, it reflects the ability of shareholder equity to cover all outstanding debts in the event of a business downturn. The debt-to-equity ratio is a particular type of gearing ratio.

$$\text{Debt/Equity} = \frac{\text{Total Personal Liabilities}}{\text{Personal Assets} - \text{Liabilities}}$$

Debt-to-Equity	2021	2020
Reliance Industries	0.32	0.65
Bharat Petroleum	0.39	1.15
Hindustan Petroleum	1.16	1.33
GAIL	0.12	0.12
Indian Oil	0.87	1.2
ONGC	0.07	0.07



Reliance Industries have seen a slight decrease in Debt-to-Equity from 2020 (0.63) to 2021 (0.32).

Bharat Petroleum have seen an increase from 0.39% in 2020 to 1.15% in 2021.

Hindustan Petroleum's Debt-to-Equity has gone down from 1.33% in 2020 to 1.16% in 2021.

GAIL has seen their Debt-to-Equity stay the same over 2 financial years.

Indian Oil has seen a decrease in Debt-to-Equity from 1.2% to 0.87%.

ONGC has seen their Debt-to-Equity stay the same over 2 financial years.

Conclusion:

All companies are seen to have a stable and good debt to equity ratio. A **higher debt-to-equity** ratio indicates that a company has higher debt, while a lower debt-to-equity ratio signals fewer debts. Generally, a good debt-to-equity ratio is less than 1.0, while a risky debt-to-equity ratio is greater than 2.0.

6. Debt Ratio

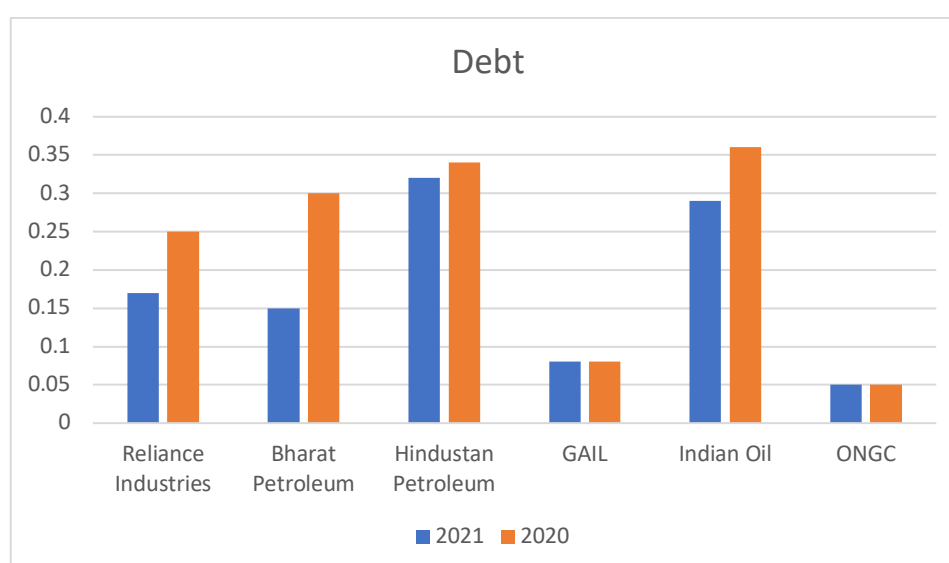
The debt ratio is a financial ratio that measures the extent of a company's leverage.

The debt ratio is defined as the ratio of total debt to total assets, expressed as a decimal or percentage. It can be interpreted as the proportion of a company's assets that are financed by debt.

The Formula for the Debt Ratio Is

Debt ratio= Total debt/ Total assets

Debt Ratio	2021	2020
Reliance Industries	0.17	0.25
Bharat Petroleum	0.15	0.3
Hindustan Petroleum	0.32	0.34
GAIL	0.08	0.08
Indian Oil	0.29	0.36
ONGC	0.05	0.05



The Debt Ratio of Reliance Industries decreased from 0.25% in 2020 to 0.17% in 2021

The Debt Ratio of Bharat Petroleum decreased from 0.3% in 2020 to 0.15% in 2021

The Debt Ratio of Hindustan Petroleum decreased from 0.34% in 2020 to 0.32% in 2021

The Debt Ratio of GAIL was same for 2020 & 2021 at 0.08

The Debt Ratio of Indian Oil decreased from 0.36% in 2020 to 0.29% in 2021

The Debt Ratio of ONGC was same for 2020 & 2021 at 0.05%

Conclusion:

The higher the debt ratio, the more leveraged a company is, implying greater financial risk.

7. Asset turnover Ratio

The asset turnover ratio measures the value of a company's sales or revenues relative to the value of its assets. The asset turnover ratio can be used as an indicator of the efficiency with which a company is using its assets to generate revenue.

$$\text{Asset Turnover} = \text{Total Sales} / (\text{Beginning Assets} + \text{Ending Assets} / 2)$$

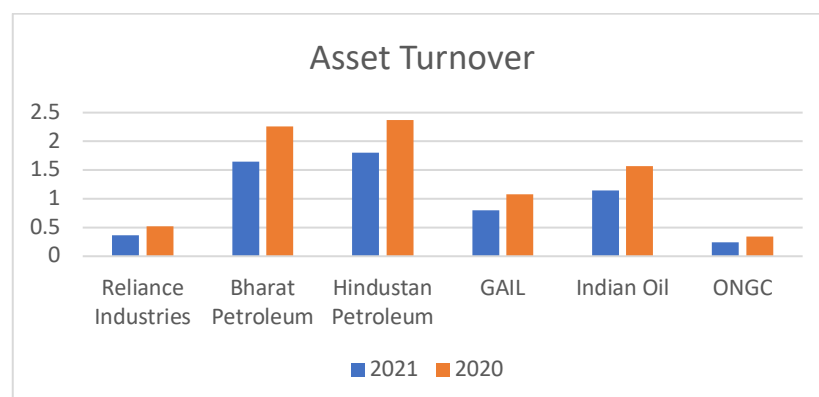
where:

Total Sales=Annual sales total

Beginning Assets=Assets at start of year

Ending Assets=Assets at end of year

Asset Turnover	2021	2020
Reliance Industries	0.37	0.52
Bharat Petroleum	1.65	2.26
Hindustan Petroleum	1.8	2.37
GAIL	0.8	1.08
Indian Oil	1.15	1.57
ONGC	0.24	0.34



The Asset Turnover Ratio of Reliance Industries decreased from 0.52% in 2020 to 0.37% in 2021

The Asset Turnover Ratio of Bharat Petroleum decreased from 2.26% in 2020 to 1.65% in 2021

The Asset Turnover Ratio of Hindustan Petroleum decreased from 2.37 % in 2020 to 1.8% in 2021

The Asset Turnover Ratio of GAIL decreased from 1.08% in 2020 to 0.8% in 2021

The Asset Turnover Ratio of Indian Oil decreased from 1.57% in 2020 to 1.15% in 2021

The Asset Turnover Ratio of ONGC decreased from 0.34% in 2020 to 0.24% in 2021

Conclusion:

The higher the asset turnover ratio, the more efficient a company is at generating revenue from its assets. Conversely, if a company has a low asset turnover ratio, it indicates it is not efficiently using its assets to generate sales.

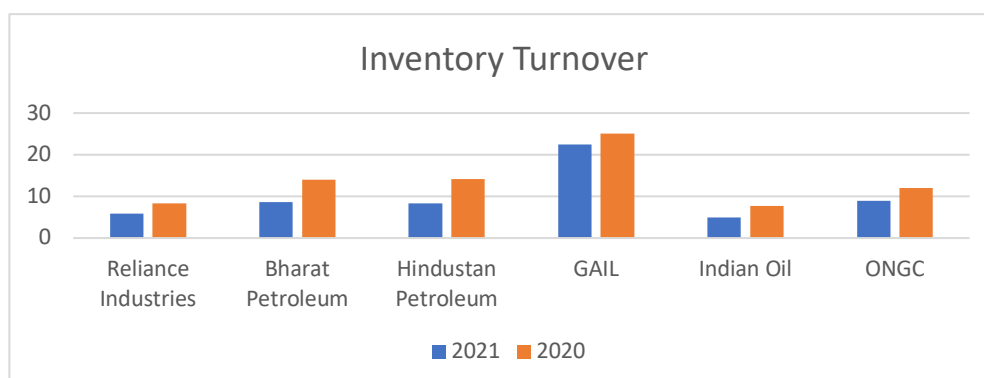
8.Inventory Turnover Ratio

Inventory turnover is a financial ratio showing how many times a company has sold and replaced inventory during a given period. A company can then divide the days in the period by the inventory turnover formula to calculate the days it takes to sell the inventory on hand.

Inventory Turnover=COGS/ Average Value of Inventory

where: COGS=Cost of goods sold

Inventory Turnover	2021	2020
Reliance Industries	5.92	8.26
Bharat Petroleum	8.65	13.97
Hindustan Petroleum	8.25	14.15
GAIL	22.46	25.02
Indian Oil	4.89	7.68
ONGC	8.88	11.94



The Inventory Turnover Ratio of Reliance Industries decreased from 8.26% in 2020 to 5.92% in 2021

The Inventory Turnover Ratio of Bharat Petroleum decreased from 13.97% in 2020 to 8.65% in 2021

The Inventory Turnover Ratio of Hindustan Petroleum decreased from 14.15 % in 2020 to 8.25% in 2021

The Inventory Turnover Ratio of GAIL decreased from 25.02% in 2020 to 22.46% in 2021

The Inventory Turnover Ratio of Indian Oil decreased from 7.68% in 2020 to 4.89% in 2021

The Inventory Turnover Ratio of ONGC decreased from 11.94% in 2020 to 8.88% in 2021

Conclusion: Inventory turnover measures how fast a company sells inventory. A low turnover implies weak sales and possibly excess inventory, also known as overstocking. It may indicate a problem with the goods being offered for sale or be a result of too little marketing.

A high ratio, on the other hand, implies either strong sales or insufficient inventory. The former is desirable while the latter could lead to lost business.

9. Quick Ratio

The quick ratio is an indicator of a company's short-term liquidity position and measures a company's ability to meet its short-term obligations with its most liquid assets.

Since it indicates the company's ability to instantly use its near-cash assets (assets that can be converted quickly to cash) to pay down its current liabilities, it is also called the acid test ratio. An "acid test" is a slang term for a quick test designed to produce instant results.

$$QR = \frac{CE + MS + AR}{CL}$$

Or

$$QR = \frac{CA - I - PE}{CL}$$

where:

QR = Quick ratio

CE = Cash & equivalents

MS = Marketable securities

AR = Accounts receivable

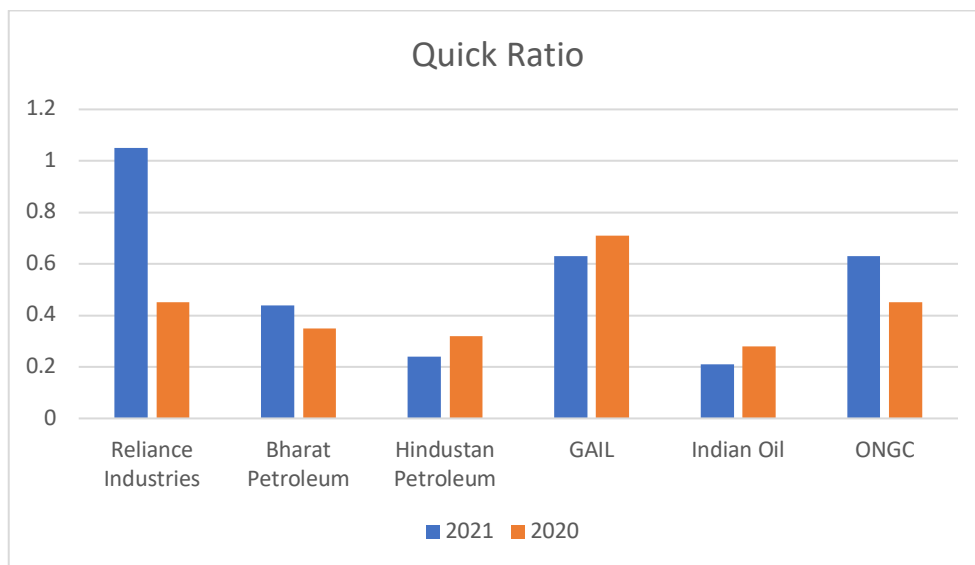
CL = Current Liabilities

CA = Current Assets

I = Inventory

PE = Prepaid expenses

Quick Ratio	2021	2020
Reliance Industries	1.05	0.45
Bharat Petroleum	0.44	0.35
Hindustan Petroleum	0.24	0.32
GAIL	0.63	0.71
Indian Oil	0.21	0.28
ONGC	0.63	0.45



The Quick Ratio of Reliance Industries increased from 0.45% in 2020 to 1.05% in 2021

The Quick Ratio of Bharat Petroleum increased from 0.35% in 2020 to 0.44% in 2021

The Quick Ratio of Hindustan Petroleum decreased from 0.32 % in 2020 to 0,24% in 2021

The Quick Ratio of GAIL decreased from 0.71% in 2020 to 0.63% in 2021

The Quick Ratio of Indian Oil decreased from 0.28% in 2020 to 0.21% in 2021

The Quick Ratio of ONGC increased from 0.45% in 2020 to 0.63% in 2021

Conclusion:

A result of 1 is the normal quick ratio. It indicates that the company is fully equipped with exactly enough assets to be instantly liquidated to pay off its current liabilities.

A company that has a quick ratio of less than 1 may not be able to fully pay off its current liabilities in the short term, while a company having a quick ratio higher than 1 can instantly get rid of its current liabilities. For instance, a quick ratio of 1.5 indicates that a company has Rs1.50 of liquid assets available to cover each Rs1 of its current liabilities.

10. DuPont Analysis

The DuPont analysis (also known as the DuPont identity or DuPont model) is a framework for analyzing fundamental performance popularized by the DuPont Corporation. DuPont analysis is a useful technique used to decompose the different drivers of return on equity (ROE). The decomposition of ROE allows investors to focus on the key metrics of financial performance individually to identify strengths and weaknesses.

$$\text{DuPont Analysis} = \text{Net Profit Margin} \times \text{AT} \times \text{EM}$$

where:

Net Profit Margin = Net Income/Revenue

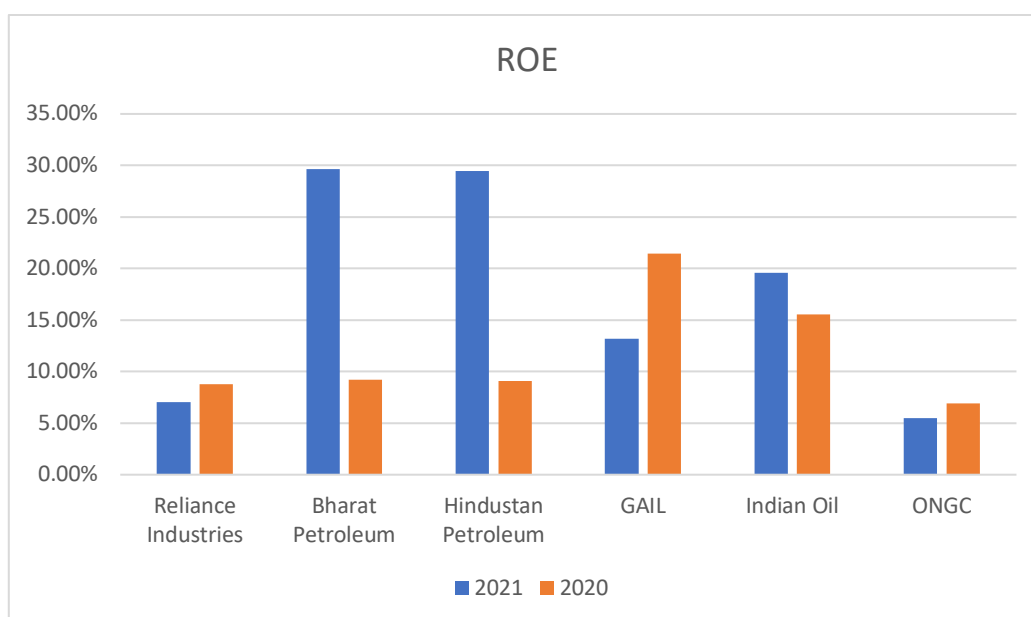
AT=Asset turnover

Asset Turnover= Sales/Average Total Assets

EM=Equity multiplier

Equity Multiplier= Average Total Assets/ Average Shareholders' Equity

ROE	2021	2020
Reliance Industries	7.02%	8.76%
Bharat Petroleum	29.64%	9.20%
Hindustan Petroleum	29.47%	9.11%
GAIL	13.16%	21.43%
Indian Oil	19.58%	15.54%
ONGC	5.50%	6.92%



The ROE of Reliance Industries decreased from 8.76% in 2020 to 7.02% in 2021
The ROE of Bharat Petroleum increased from 9.20% in 2020 to 29.64% in 2021
The ROE of Hindustan Petroleum increased from 9.11% in 2020 to 29.47% in 2021
The ROE of GAIL decreased from 21.43% in 2020 to 13.16% in 2021
The ROE of Indian Oil increased from 15.54% in 2020 to 19.58% in 2021
The ROE of ONGC decreased from 6.92% in 2020 to 5.5% in 2021

Conclusion:

A DuPont analysis is used to evaluate the component parts of a company's return on equity (ROE). This allows an investor to determine what financial activities are contributing the most to the changes in ROE. An investor can use analysis like this to compare the operational efficiency of two similar firms. Managers can use DuPont analysis to identify strengths or weaknesses that should be addressed.

Declining ROE suggests **the company is becoming less efficient at creating profits and increasing shareholder value.**

A rising ROE suggests that **a company is increasing its profit generation without needing as much capital.** It also indicates how well a company's management deploys shareholder capital. A higher ROE is usually better while a falling ROE may indicate a less efficient usage of equity capital.