

Asia Corporate Day

Indian Oil Corporation Limited

September 05, 2017



Indian Oil Corporation: The Future of India Energy

Strong Support from the Government of India	 Maharatna Company; Gol Control: 57.34% Government nominated Directors on IOC Board Contribution to exchequer of US\$28 bn in FY17 	सत्यमेव जयते
Largest Refiner in the Country	 11 refineries with 81.20 MMTPA Capacity 35% of Domestic Refining Capacity 	
Pan-India Pipeline Infrastructure	 12,700+ km pipelines for crude oil and products with a total capacity of 93.7 MMTPA 48% share in crude and product pipeline (by length) 	
Leading Market Share Across Portfolio	 45.1% petroleum market share in FY17 with over 46,500 touch points 	
Integrated Operations Across the entire Energy Value Chain	 2nd largest domestic player in Petrochemicals E&P: 8 domestic and 9 overseas blocks 	
Strong Focus on Innovation Through R&D and Alternate Energy Sources	 554 active patents as on 31.03.2017 New focus on Alternate and Renewable Energy (Wind, Solar, Biofuels, Nuclear) 	
Driven by a Management Team That has Delivered Results	 Consistent growth FY11-FY17 Revenue CAGR: 6.59% 	

Note: Company Filings and Petroleum Planning and Analysis Cell (http://ppac.org.in/). USD-INR:64.8550 (as on March 31, 2017)

इंडियनऑय

Our Journey at a Glance















US\$ in Billion

0.1 1970



2.7

1990

14.5

2000

Turnover

CAGR: 15 %

0.7

1980

Note: IOC is ranked 14th as per Platt Global Energy Company Rankings 2016. IOC is ranked 161 amongst Fortune Global 500 Companies in 2016. US\$-INR:64.8550 (as on March 31,2017)

68.7

2017

Well Poised to Leverage Strong Industry Dynamics



India is Among the World's Fastest Growing Economies

GDP Growth	2015	2016	2017 P	2018 P
India	7.3%	7.5%	7.5%	7.6%
China	6.9%	6.5%	6.2%	6.0%
ASEAN-5	4.8%	4.8%	5.1%	5.2%
Brazil	(3.8%)	(3.8%)	0.0%	1.1%
Russia	(3.7%)	(1.8%)	0.8%	1.0%

Source: IMF World Economic Outlook, April 2017 (GDP at constant Prices) ASEAN-5: Indonesia, Malaysia, Philippines, Thailand & Vietnam



Source: Petroleum Planning and Analysis Cell, Ministry of Petroleum and Natural Gas, Govt. of India.

Low per Capita Oil Consumption Represents an Underpenetrated Opportunity...



Source: CIA World Fact book (2014 & 2015 Est.).-as per website on 21 Aug 2017

...With Strong Growth in Consumption Across Key Products



Note: HSD: High Speed Diesel and MS: Motor Spirit Source: Petroleum Planning and Analysis Cell

Consumption in million barrel per day



IOC - The Largest Refiner in India

35%

26%



Total crude oil import : 63.79 MMT (including 7.74 MMT for CPCL) Figures for FYE 2017



Leader in Refining Market Share⁽¹⁾

14%



Paradip Refinery – Modern Marvel



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Paradip Refinery– Salient Features



Paradip Refinery: Augmenting IOC's Capacity

- Capacity : 15 MMPTA
 - Operating at 100% capacity from May'17 onwards
- One of the most modern refineries:
 - 100% HS including 40% Heavy
 - Nelson Complexity Factor 12.2
 - Processed 99.99% Sour Crude in Q1 17-18
- Product Slate :
 - MS 25%, HSD 38%, ATF/SKO 13%, LPG 5%, Petcoke 8%
- Distillate Yield 80%
 - For Q1 17-18
- Improvising Opex
 - 1.40 \$/bbl in Q1 17-18 against 2.05 \$/bbl in FY 16-17
- Energy Index 50 MBN
 - Among the best in the industry

INDMAX Unit







Unparalleled Network of Cross Country Pipelines



Note: Figures as of March 31, 2017



Pipelines Throughput

ММТ



Indicate Total Throughput

Steady Revenue Stream with healthy EBITDA

In US\$ millions



All annual figures for the year ended March 31 of the respective years. USD-INR:64.8550 (as on Mar 31, 2017)



Extensive Network of Cross Country Pipelines





Marketing: Reach in Every Part of the Country







Export

Inland

Leader in Market Infrastructure

Source: Company Filing

Unparallel Sales





Maintaining Leadership with 45.1% Market Share

Diversified Customer Base & Renowned Brands





• The turnover growth is insulated from the cyclical demand fluctuations due to diversified customer base

Retail Outlet at Boat house

Moving Beyond the Traditional Value Chain





One of the Leading Producer of Petrochemical Products



Capacity		
Project	Capacity (MT)	Capex (US\$mn)
Guajarat LAB	120,000	175
Styrene Butadiene Rubber Plant	120 KTA	150
Panipat Px / PTA	553,000	508
Panipat Naphtha Cracker	1,460,000	2337
		Source: Company Filing



EBITDA (in US\$ millions)





US\$-INR: 64.8550 (as on March 31, 2017)

Source: Company Filing

Backward Integration Through E&P



IOC: E&P Capabilities Status of Domestic and Overseas Blocks **Total 9 Blocks Total 8 Blocks** Stake in 17 exploration blocks 8 Domestic blocks - With ONGC / OIL / GAIL / GSPC Including 2 Coal Bed Methane blocks with U. Development, 3 Production, 5 ONGC (20% participating interest) 9 International blocks - Libya (1), Yemen (1), Nigeria (1), Gabon (1), U. Development, 1 Appraisal, 3 Venezuela (1), USA (1), Canada (1) and Russia (2) **Exploration**, 1 **Discovery**, 3 Discovery, 1 **Overseas Blocks Domestic Blocks** Discovery Exploration Appraisal Under Development Production All figures as on March 31, 2017 **Recent Developments on E&P** A view of the drilling site at IOC Khambat 1 Increasing Equity Oil and Gas Production. New Asset Taken stakes in Vankor and Taas Yuryakh (Roseneft's

All figures as on March 31, 2017

Russian Assets). Both are producing Assets.

Russian Asset Acquisition





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Reserves	331 MMT	

Production	21 MMTPA		
Consortium Stake	23.9%		
IndianOil Stake	8%		

Taas: Tomorrow's Star

Reserves	196 MMT
Production	1 MMTPA
Peak Envisaged	5 MMTPA
Consortium Stake	29.9%
IndianOil Stake	10%

Investment Approval for \$1.23 billion



Diversified Across Geographies and Energy Sources





East FZE (100% Stake)

Marketing of Lubes





- 6000+ Retail Outlets Solarised. Installed capacity 24 MW (Mar'17).
- Other Solar capacity is 20 MW



Strong Focus on Research and Development

Focus on Products & Technology			Collaborations	
INDMAX	 Technology developed to maximize light distillates from refinery residue 	Indane NANOCUT LPG	 Hi-therm LPG based metal cutting gas Improved efficiency and safety standards 	LanzaTech
Diesel Hydro treating	 Commercialized 1.2 MMTPA grass-root DHDT facility in Bongaigaon 	Railroad Oils	 1st in India to introduce multi- grade railroad oil to Indian Railways - significant fuel and oil savings 	Game-changing technology for Conversion of CO ₂ to value added products
Naphtha Isomerization	 Retrofitting of Bongaigaon refinery for producing Euro-III/ IV motor spirit 	Marine Oils	 One of six companies to develop "OEM Approved Marine Technology Equipment" 	vision on technology
Fuel Efficient Engine Oils	 Commercialization of R&D developed fuel efficient engine oil for gasoline & diesel car 	Hot Rolling Oils	 Commercialization of R&D developed energy efficient hot rolling oil in association with RDCIS in steel plants 	Conversion of Carbon dioxide to chemicals

Active Patents Portfolio



Investments in Research & Development

	Indalin: Technology for conversion of naphtha to light olefins, LPG & aromatic rich gasoline; feasibility under study
	Delayed Coking : Thermal cracking technology for conversion of long/short residue to distillates. Partnership with Engineers India Limited
_	Octamax : Technology for dimerization of cracked C4 to high octane (RON) component for Euro IV/V gasoline
	FCC Catalyst Additives: CO - Combustion promoter, Coke Reduction Additive, Residue Upgradation Additive for bottom Upgradation
	DHDS / DHDT Catalysts: Demonstrated at CPCL for ULSD in 2009. Partnership with Sud-Chemie India Limited (SCIL)
	Vegetable Oil co-processing in DHDT: Successful technology demonstrated in 2013 including demetallation of vegetable oil18

INDMAX – A New Era



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INDMAX: INDane MAXimization



IndianOil R&D's "Make In India" Initiative

> Indigenously developed technology to bridge India's LPG Deficit

> > Over 2 times LPG yield over regular FCC

Flexibility to cater to Seasonal Demand: LPG/ MS/ HSD Mode

High Octane MS (97-98 RON) production

INDMAX unit being installed at Bongaigaon refinery as well

<u>R&D Prowess</u>



• Technology Commercialisation



• 2nd R&D Campus – Upscaling Thrust Areas



New generation of Lead Acid Battery trials underway

Investing In Future Growth



Major Ongoing Projects Planned Capital Expenditure Outlay⁽¹⁾ (2017-18) (US\$ millions) **Estimated Cost Project** (US\$ mn) Others, 540 Polypropylene unit at Paradip Refining, 703 486 Coker at Haldia 474 **BS-VI Projects** 2376 INDMAX unit at Bongaigaon 398 E&P, 383 Paradip-Hyderabad Pipeline 341 Pipelines, 291 (1150 km, 4.5 MMTPA) Petchem, 186 **Major approved Capex Plans Estimated Cost Project** (US\$ mn) Marketing, Ennore – Tuticorin Natural Gas Pipeline 693 923 Koyali – Ahmednagar – Solapur Pipeline 303 Capex planned for 2017-18, approx USD 3.0 bn Phase – IV of Retail Automation 206 Haldia Barauni Product Pipeline 160



Contribution to Exchequer (in US\$ billions)





A K Sharma Director (Finance) 32+ Year Experience

Sanjiv Singh

35+ Year Experience

Verghese Cherian

32+ Year Experience

Director (HR)

Anish Agarwal

BS Canth

Director (Pipelines)

36+ Year Experience

Director (Marketing)

32+ Year Experience

Chairman

Management Team

Nigeria Petroleum National Company. Chemical engineer from IIT Roorkee

Post graduate in Social Work (MSW).

Electronics engineer from Punjab Engineering college and Executive MBA from MDI, Gurgaon.

Has held several key portfolios including sales,

operations, human resources etc. Has made

significant contribution as a member of Retail

PG in Personal Management & Industrial Relations

Development, Natural Gas, Marketing Operations,

A Graduate in Mechanical Engineering from the

NIT Surat, and a Post-Graduate in Management

Trade.

business

Business

Has experience in varied areas of

International

Logistics and Human Resources.

international market.

possesses law degree.

centre of IndianOil

projects, etc.

Advisory Committee.

and a Law graduate.

from MDI, Gurgaon .

including





G K Satish Director (Planning & Business Development) 30+ Year Experience



Dr. SSV Ramakumar Director (R&D) 30+ Year Experience

- Has three decades of R&D experience in downstream hydrocarbons sector, notably in the areas of refinery process research streams
- A doctorate in Chemistry from IIT-Roorkee

इंडियनऑयल IndianOil

Our Differentiators: Strong Financials



Net Profit (in US\$ billions) and Dividends (%)





EBITDA (in US\$ billions)



Exchange Rate 1USD= INR 64.8550

Dividend Payout Ratio (% of PAT)



Our Differentiators: Strong Financials





Cash breakdown & Debt (in US\$ billions)



Special Oil Bonds Cash Equivalents

Amount Recoverable from Govt.



US\$-INR: 64.8550 (as on march 31, 2017)

(1) Received from Government of India in lieu of compensation till the year FY 2009.

(2) Core Debt = Debt less cash receivable from Government



Reduction in Debt Level

Conclusion





Key Risk Factors



• Fluctuations in commodity prices (e.g. crude oil)

• Fluctuation in exchange rates (INR – US\$)

• Fluctuations in global petroleum product prices