

# **Indian Oil Corporation Limited**

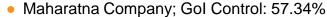
JP Morgan Indian Investor Summit 2017

September 2017

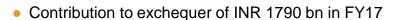
## Indian Oil Corporation: The Future of India Energy



## Strong Support from the Government of India

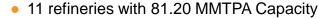








**Largest Refiner in the Country** 



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)





इंडियनऑयल

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

New focus on Alternate and Renewable Energy

554 active patents as on 31.03.2017

 New focus on Alternate and Renewable Energy (Wind, Solar, Biofuels, Nuclear)



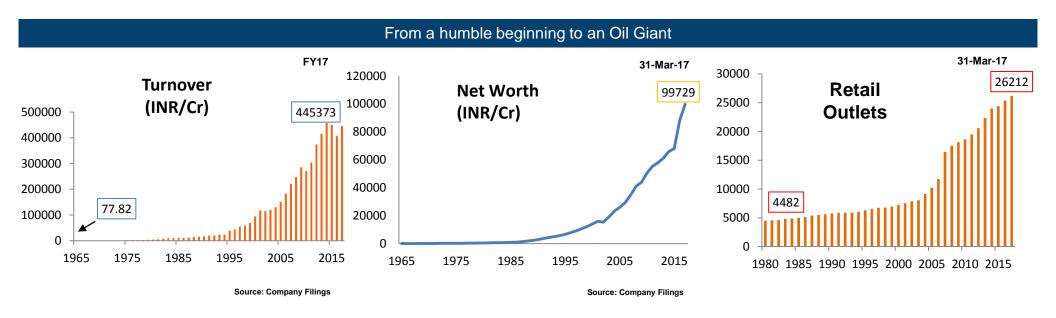
Driven by a Management Team That has Delivered Results

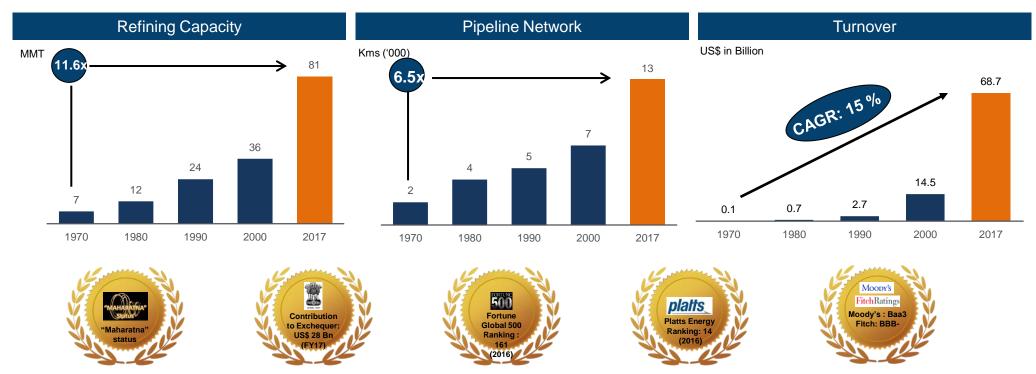
- Consistent growth
  - o FY11-FY17 Revenue CAGR: 6.59%



## Our Journey at a Glance







## Well Poised to Leverage Strong Industry Dynamics

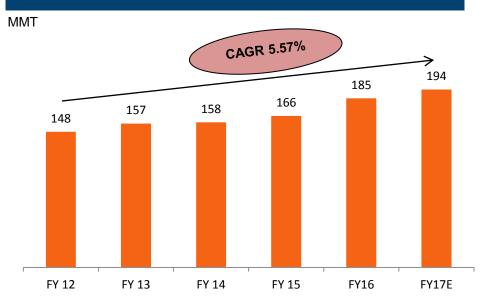


#### India is Among the World's Fastest Growing Economies

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

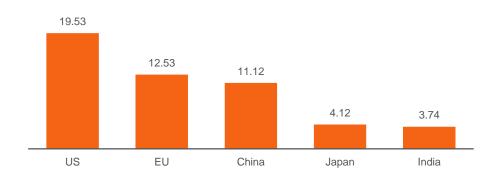
#### Oil Consumption Trends Have Been Rising Marginally...



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

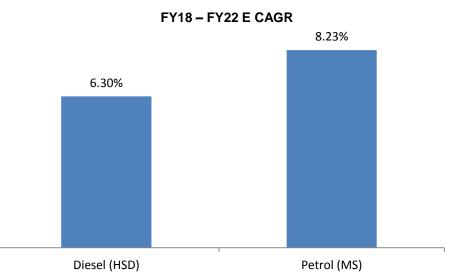
## Low per Capita Oil Consumption Represents an Underpenetrated Opportunity...

Consumption in million barrel per day



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

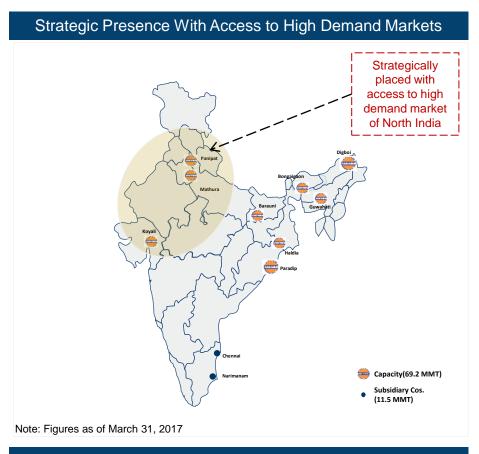
#### ...With Strong Growth in Consumption Across Key Products



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

## **IOC - The Largest Refiner in India**



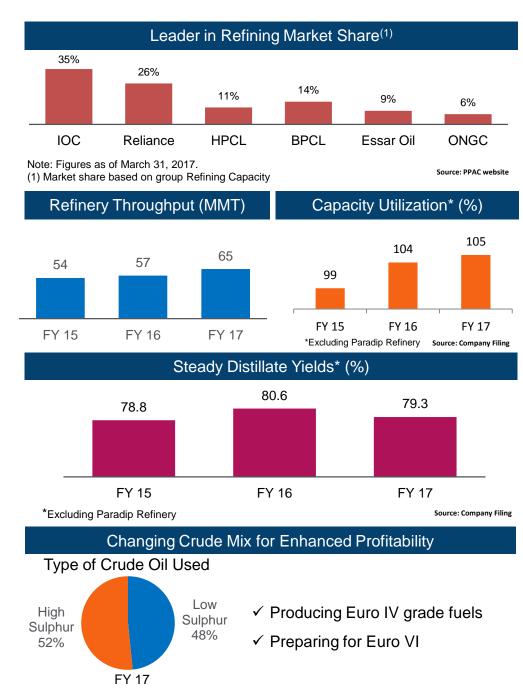


#### Importing Crude from Across the Globe



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

Figures for FYE 2017 Source: Company Filing



Note: All figures for the year ended March 31 of the respective years.

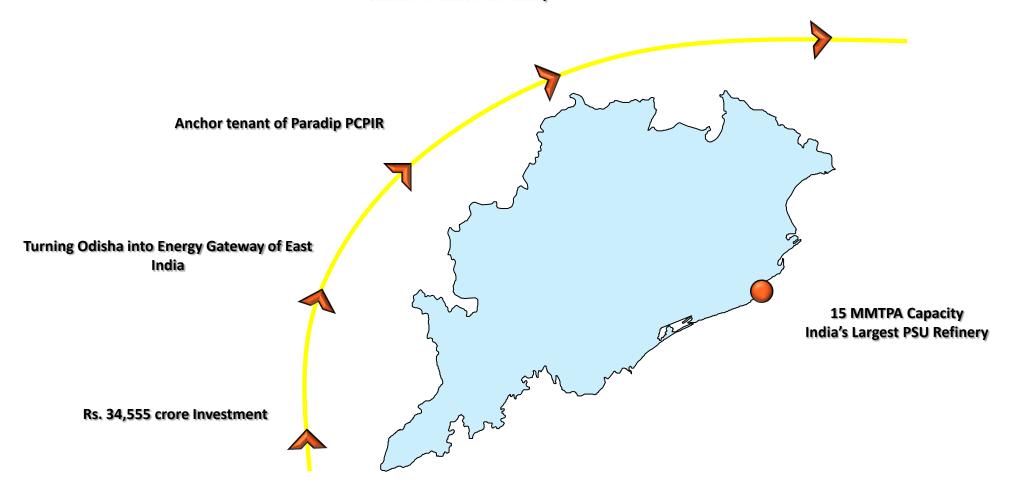
Source: Company Filing

## Paradip Refinery – Modern Marvel



#### Further Downstream Projects in Odisha

#### 700 KTA PP Plant: Petchem Initiation at Paradip



### 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

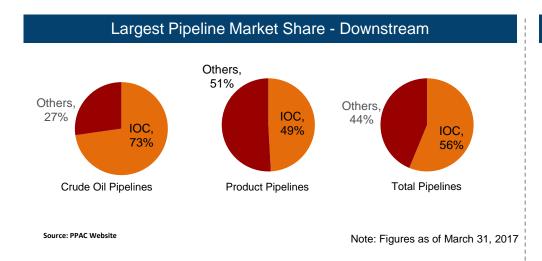
#### **INDMAX Unit**

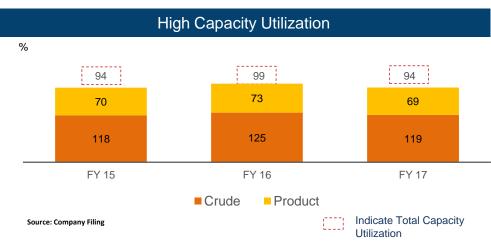


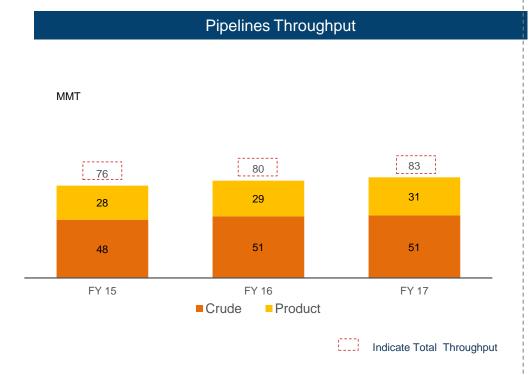


## **Unparalleled Network of Cross Country Pipelines**















### **Extensive Network of Cross Country Pipelines**

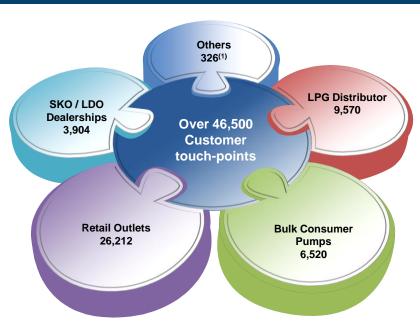




## Marketing: Reach in Every Part of the Country







All figures for the year ended March 31, 2017

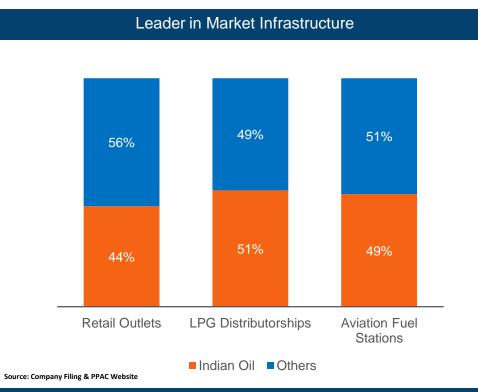
#### Other Key Highlights

**Source: Company Filing** 

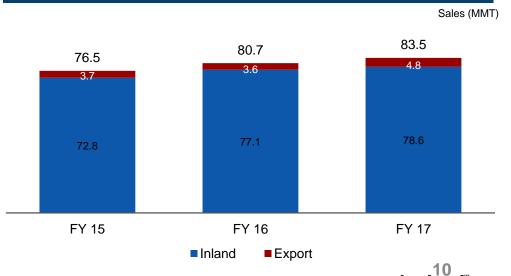
Rural Thrust and Penetration	✓ 7,051 Kisan Sevak Kendras (KSK)
LPG	✓ Supply to over 99 million households
Petroleum Product Market Share	✓ 45.1% share in petroleum products

 $Note: (1)\ Others\ includes\ A viation\ Fuel\ Stations,\ Terminals,\ Depots\ and\ LPG\ Bottling\ Plants.$ 

Source: Company Filing

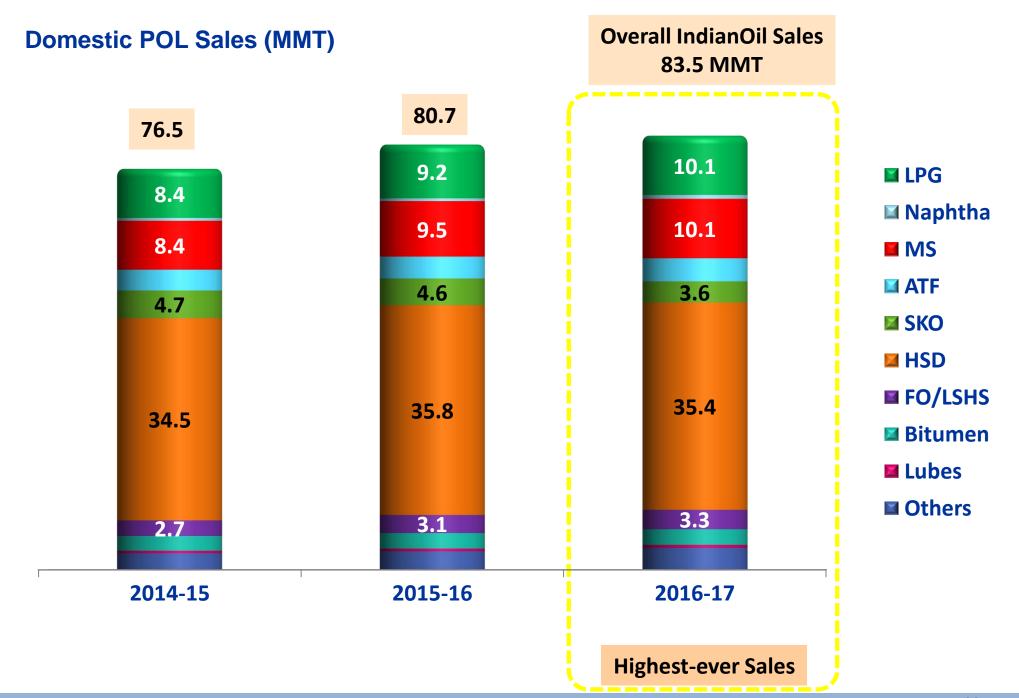






## **Unparallel Sales**





## Diversified Customer Base & Renowned Brands



**Diversified Products & Brands** 

#### **Branded Products**































Kisan Seva Kendra outlets for extending rural reach

**Diversified** Customer Base







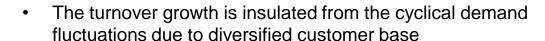










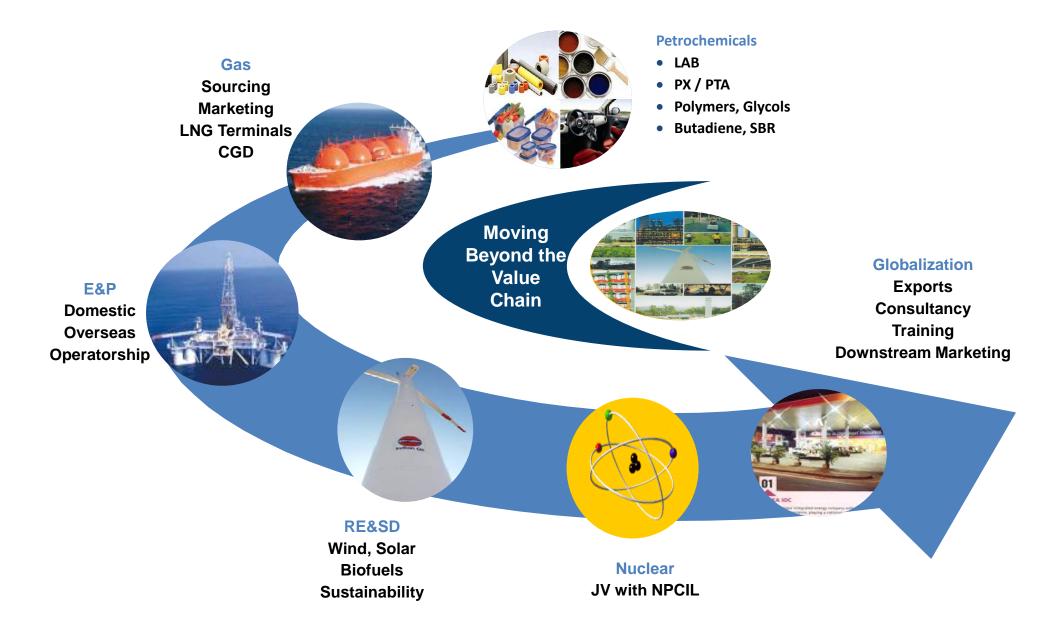




Retail Outlet at Boat house

## Moving Beyond the Traditional Value Chain



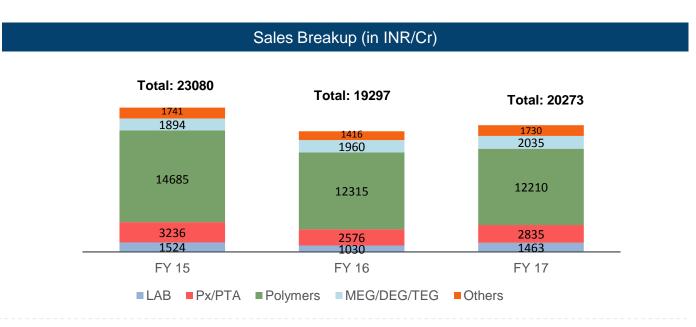


## One of the Leading Producer of Petrochemical Products

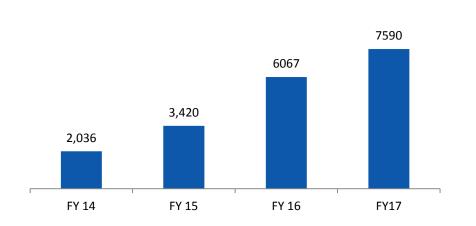


#### Capacity

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 INR/Cr)





### **Backward Integration Through E&P**

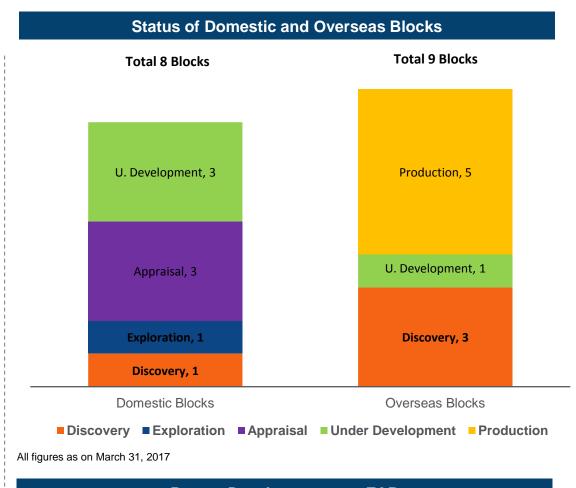


#### **IOC: E&P Capabilities**

- Stake in 17 exploration blocks
- 8 Domestic blocks
  - With ONGC / OIL / GAIL / GSPC
    - Including 2 Coal Bed Methane blocks with ONGC (20% participating interest)
- 9 International blocks
  - Libya (1), Yemen (1), Nigeria (1), Gabon (1),Venezuela (1), USA (1), Canada (1) andRussia (2)



A view of the drilling site at IOC Khambat 1



#### **Recent Developments on E&P**

- Increasing Equity Oil and Gas Production.
- New Asset
  - Taken stakes in Vankor and Taas Yuryakh (Roseneft's Russian Assets). Both are producing Assets.

## **Russian Asset Acquisition**



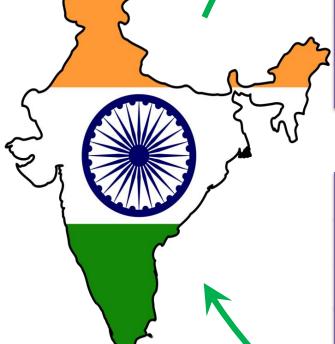


Reserves	331 MMT
Production	21 MMTPA
Consortium Stake	23.9%
IndianOil Stake	8%

**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



## **Vankor**

US\$ 598 million invested (till 31.03.2017)



US\$ 408 million invested (till 31.03.2017)

### Diversified Across Geographies and Energy Sources



#### **Geographical Diversification**

IndianOil Mauritius Ltd. (IOML) (100% Stake)

- Aviation, terminal & retail business
- 24,000 MT Storage Terminal
- Market Share: 24%



#### **Diversification Across Sources**

Gas



- JV for City Gas Distribution with presence in 9 Cities
- 5 MMTPA LNG import, storage and regassification terminal under construction at Ennore (Near Chennai)
- Ennore –Tuticorin Pipeline (1175 km)

Lanka IOC Plc.

(75.1% Stake)

- Storage, terminal & retail business
- · 200 retail outlets
- Market Share 43.5%







- Wind 167.60 installed capacity
- 47 MW plant at Gujarat;
- 48.3 MW plant at AP
- 72.3 MW plant at Rajasthan

IOC Middle 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

**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
- Game-changing technology for Conversion of CO<sub>2</sub> to value added products

**Collaborations** 

LanzaTech

Diesel Hydro treating

 Commercialized 1.2 MMTPA grass-root DHDT facility in Bongaigaon

Railroad Oils

 1st in India to introduce multigrade railroad oil to Indian Railways - significant fuel and oil savings

VITO vision on technolog

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"

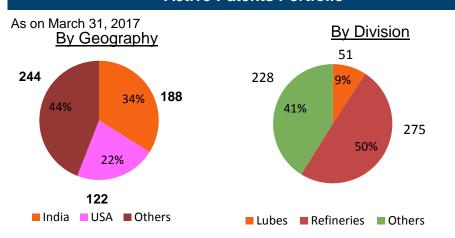
Conversion of Carbon dioxide to chemicals

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

#### **Active Patents Portfolio**



Total Patents: 554

#### **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 oil

### INDMAX – A New Era



#### **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

## **R&D Prowess**



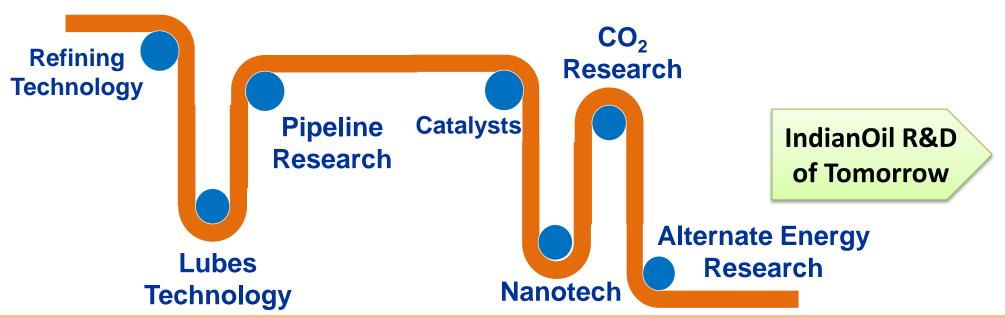
Technology Commercialisation







2<sup>nd</sup> R&D Campus – Upscaling Thrust Areas



### **Investing In Future Growth**



#### **Major Ongoing Projects**

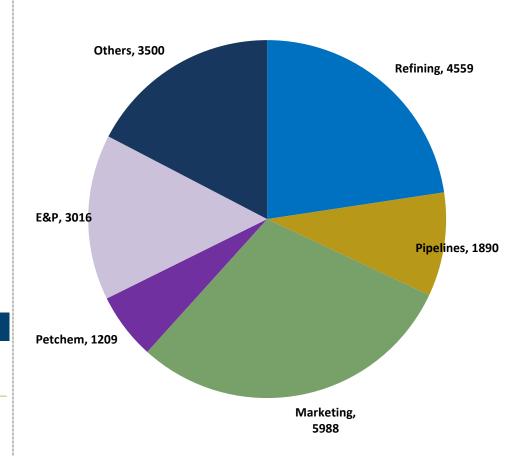
Project	Estimated Cost (INR/Cr)
Polypropylene unit at Paradip	3,150
Coker at Haldia	3,076
BS-VI Projects	15,411
INDMAX unit at Bongaigaon	2,582
Paradip-Hyderabad Pipeline (1150 km, 4.5 MMTPA)	2,321

#### **Major approved Capex Plans**

Project	Estimated Cost (INR/Cr)
Ennore – Tuticorin Natural Gas Pipeline	4,497
Koyali – Ahmednagar – Solapur Pipeline	1,967
Phase – IV of Retail Automation	1,338
Haldia Barauni Product Pipeline	1,038

#### Planned Capital Expenditure Outlay<sup>(1)</sup> (2017-18)

(INR/Cr.)



Capex planned for 2017-18, approx INR 20,162 Cr

### **Experienced Management Team & GOI Ownership and Support**



#### **Management Team**



Sanjiv Singh
Chairman
35+ Year Experience

- Handled all aspects of Refining activities.
   Previously headed the Refinery Division. Also worked with centre for High technology and with Nigeria Petroleum National Company.
- · Chemical engineer from IIT Roorkee



A K Sharma

Director (Finance)

32+ Year Experience

- Handled various assignments in finance functions.
  Was at the forefront of treasury operations to raise
  funds for IOC. Credited for issuing the first ever
  foreign currency bonds of IndianOil in the
  international market.
- Chartered Accountant (CA) by profession. Also possesses law degree.



Verghese Cherian

Director (HR)

32+ Year Experience

- Possesses a rich and comprehensive experience in human resource discipline in various positions at IndianOil. Also headed IIPM, an apex training centre of IndianOil
- Post graduate in Social Work (MSW).



Anish Agarwal

Director (Pipelines)

36+ Year Experience

- Has held various important portfolios in Pipelines, and has worked in various disciplines like operations, maintenance, engineering services, projects, etc.
- Electronics engineer from Punjab Engineering college and Executive MBA from MDI, Gurgaon.



B S Canth

Director (Marketing)
32+ Year Experience

- Has held several key portfolios including sales, operations, human resources etc. Has made significant contribution as a member of Retail Advisory Committee.
- PG in Personal Management & Industrial Relations and a Law graduate.



G K Satish

Director (Planning &

Business Development)

30+ Year Experience

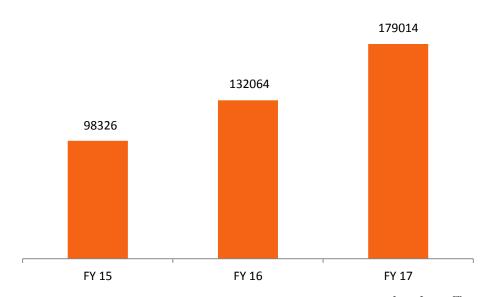
- Has experience in varied areas of business including International Trade, Business Development, Natural Gas, Marketing Operations, Logistics and Human Resources.
- A Graduate in Mechanical Engineering from the NIT Surat, and a Post-Graduate in Management from MDI, Gurgaon.



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

#### Contribution to Exchequer (in INR/Cr)



Source: Company Filing

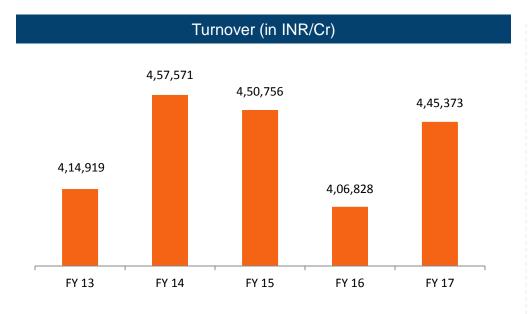
#### **Strong Support From the Government of India**

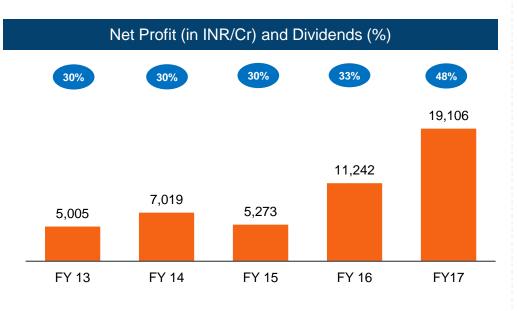


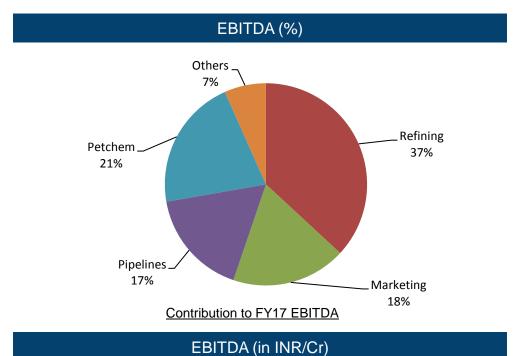
### **Our Differentiators: Strong Financials**



23







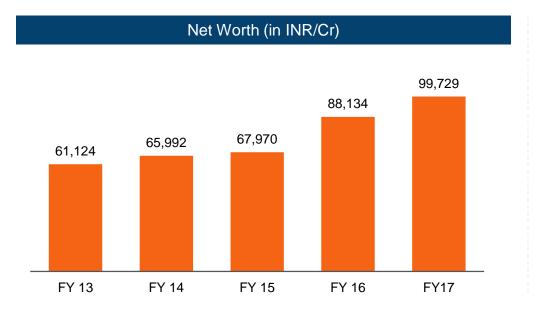


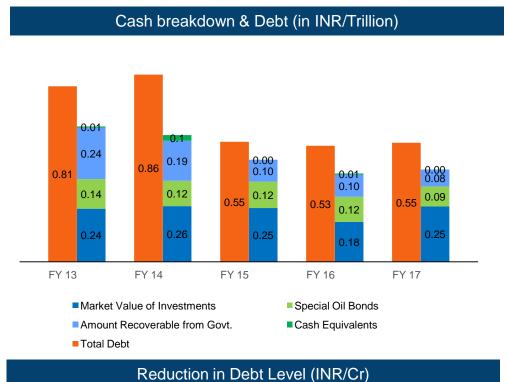
Dividend Payout Ratio (% of PAT)

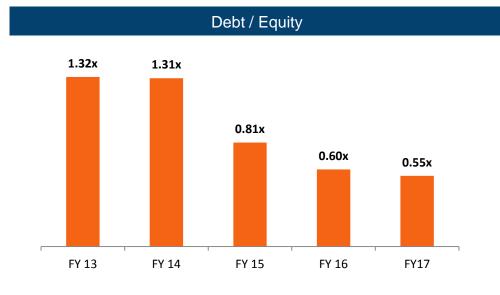
Source: All figures Company Filing

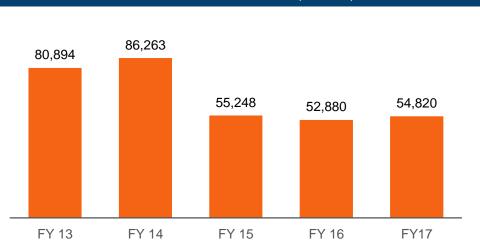
### Our Differentiators: Strong Financials











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

<sup>(2)</sup> Core Debt = Debt less cash receivable from Government

### Conclusion



#### **India's Largest Oil Company**

...Focused on Creating Shareholder Value

- Largest Refiner in the Country
- Pan-India Pipeline Infrastructure
- Leading Market Share Across the Portfolio
- Integrated Operations Across the entire Energy Value Chain
- Strong Focus on Innovation Through R&D and Alternate Energy Sources
- Driven by a Management Team That has Delivered Results
- With Strong Support from the Government of India

## **Key Risk Factors**



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

Fluctuation in exchange rates (INR – US\$)

• Fluctuations in global petroleum product prices