

HPCL Business Portfolio

Fast Facts:

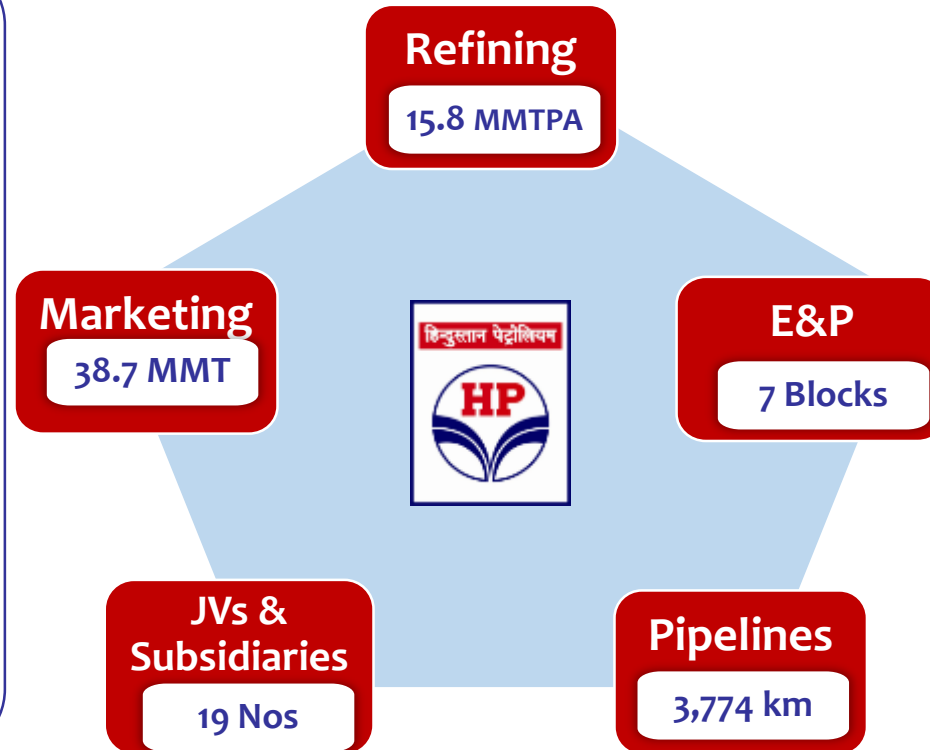
- Maharatna Company
- Platts top 250 : Rank 55
- Performance in 2018-19:**
- India's No. 1 Lube Marketer : 652 TMT
- Market Sales : 38.7 MMT
- Refining Thruput : 18.4 MMT
- Pipeline Thruput : 21.5 MMT
- Sales Growth : 4.9%
- Gross Sales : US \$ 42.7 Billion
- Net Profit : US \$ 872 Million

* As of December 2019

- Mumbai : Fuels (7.5 MMTPA) Refinery
- Mumbai : Lubes (428 TMTPA) Refinery
- Visakh: Fuels (8.3 MMTPA) Refinery
- Bathinda (HMEL- JV): Fuels (11.3 MMTPA) Refinery
- Green R&D Centre, Bengaluru

- Retail
- LPG
- Direct Sales
- Lubes
- Aviation
- Natural Gas & Renewables
- Operations & Distribution
- Projects & Pipelines

No. of employees :10,200+

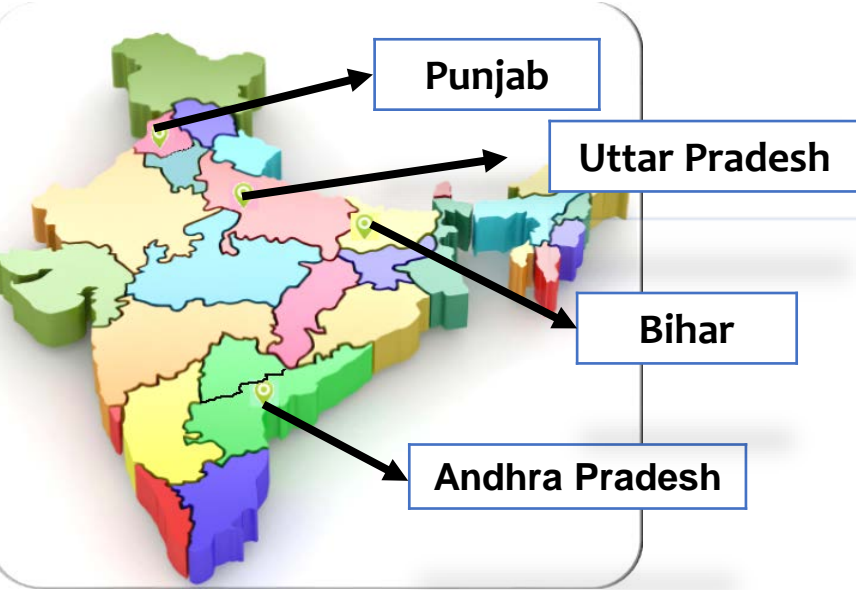


Infrastructure*

- 42 POL Terminals
- 41 Inland Relay Depots
- 16,017 Retail Outlets
- 50 LPG Bottling Plants
- 6,040 LPG Distributors
- 43 Aviation Service Facilities
- 6 Lube Blending plants

Speaker : Shri J.S.Prasad,
Executive Director –P&P, HPCL

INITIATIVES IN ADVANCED BIOFUEL AREA



- **Proposed 2G Biorefinery Locations:** In the states of Punjab, Uttar Pradesh, Bihar & Andhra Pradesh
- **Production Capacity :** 100 KLPD of Bioethanol
- **Feedstock :** Feedstock Agnostic (Design case : Rice straw)
- **Technology Licensors :**
 - DBT ICT
 - M/s Praj Industries Limited for Punjab
- First biorefinery expected to be commissioned in 2022

- **Proposed Compressed Biogas Plant location :** Uttar Pradesh
- **Proposed production Capacity :** Modules of 10 TPD of CBG



- Assured Offtake of Compressed Biogas (CBG)
- Branding/Retailing including Dispensing Unit/Booster Compressor
- LOI issued for 49 CBG plants in 10 states (cumulative capacity 202.7 Ton/day)



FUTURE PLANS IN ADVANCED BIOFUELS

Development of Indigenous 2G Technology, **HP-ASAP (Assisted Single Step Acid Pretreatment)** by HPCL Green R&D Centre

Setting up of a pilot scale facility at HPGRDC of 1 Ton/week based on HPCL technology

FOCUS AREA	SALIENT FEATURES
HP-ASAP BIOMASS PRETREATMENT PROCESS	<ul style="list-style-type: none">• The HP-ASAP process will be scaled up to 1 T level within the next 6 months at the pilot plant facility being set up at HPCL R & D, Bangalore• Further improvements of ASAP has resulted in 80 % catalyst recycle
ENZYME BLEND	Cellulase Enzyme production scaled up to 1000 L scale and the activity obtain was ~10 FPU
FERMENTATION	Simultaneous conversion of C5 and C6 sugars into ethanol with in-house developed strain



Thank you