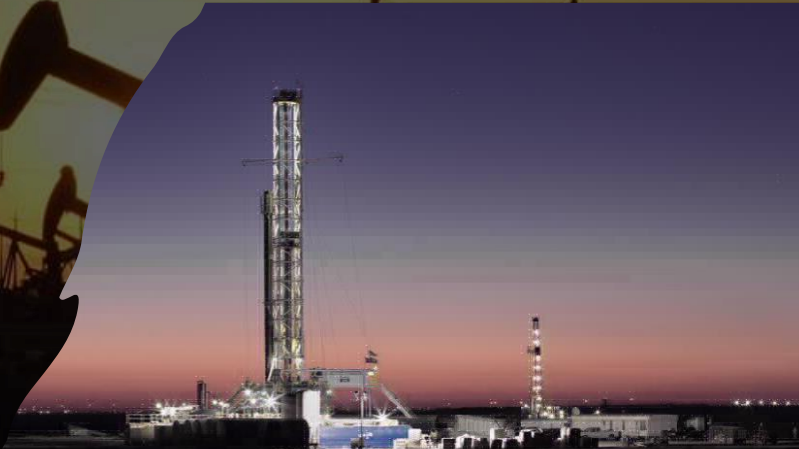




Production Enhancement Opportunities in ONGC Fields

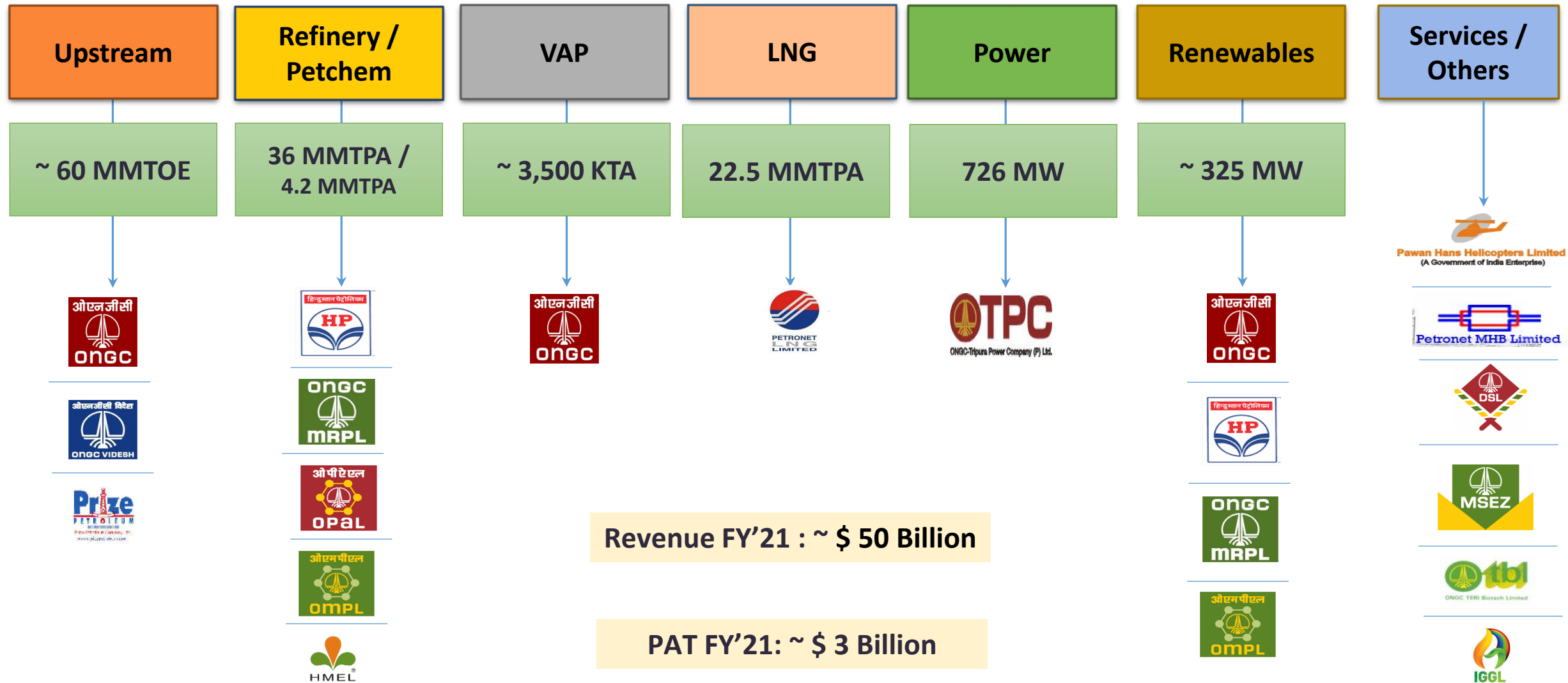


ADIPEC 2021

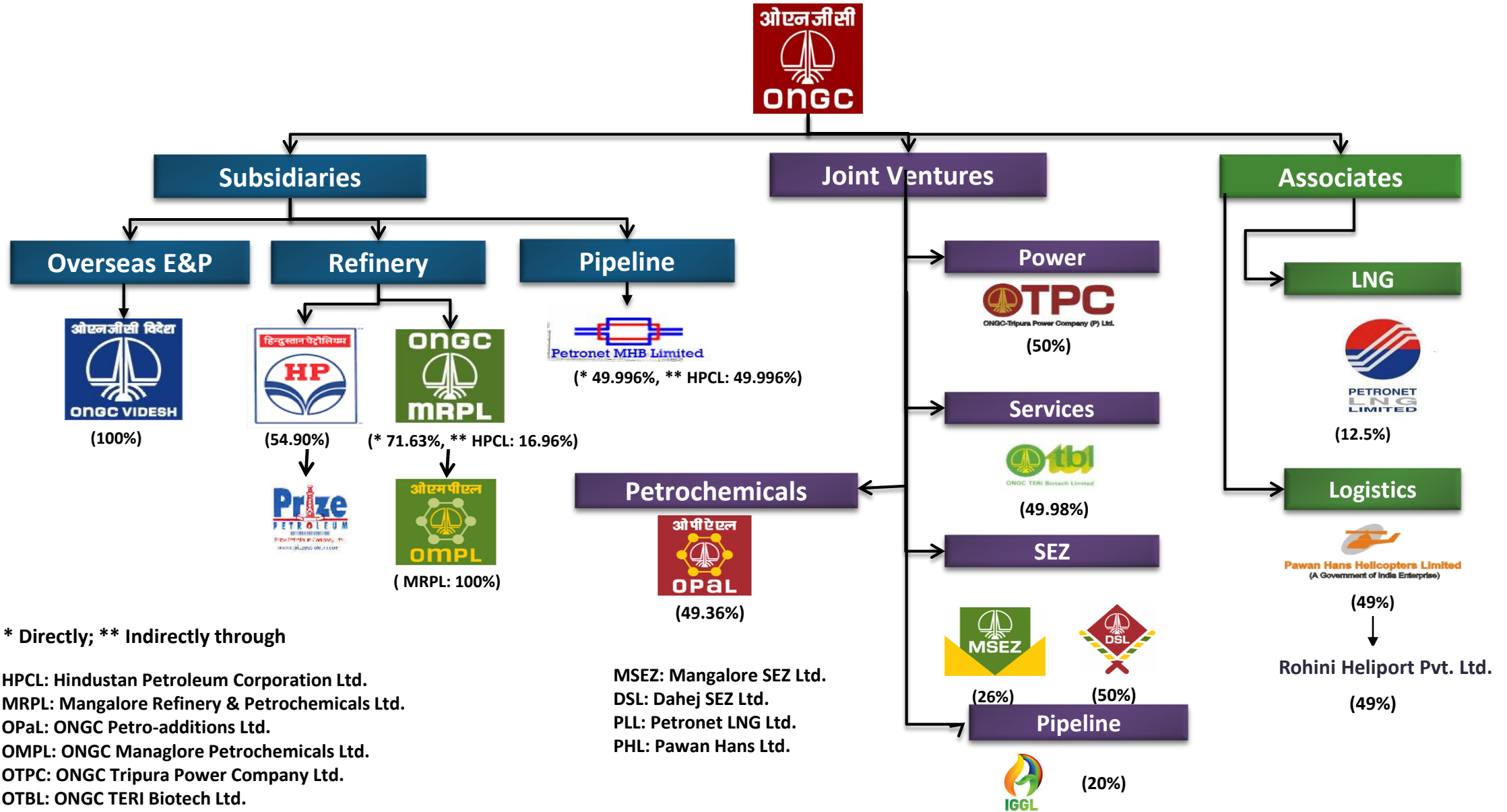
Abu Dhabi

November 16, 2021

ONGC Group: Integrated Energy Company



ONGC Group: Portfolio Companies



* Directly; ** Indirectly through

HPCL: Hindustan Petroleum Corporation Ltd.
MRPL: Mangalore Refinery & Petrochemicals Ltd.
OPaL: ONGC Petro-additions Ltd.
OMPL: ONGC Mangalore Petrochemicals Ltd.
OTPC: ONGC Tripura Power Company Ltd.
OTBL: ONGC TERI Biotech Ltd.

MSEZ: Mangalore SEZ Ltd.
DSL: Dahej SEZ Ltd.
PLL: Petronet LNG Ltd.
PHL: Pawan Hans Ltd.

ONGC: Competitive Advantage to be a Preferred Partner

Producing 76% of India's domestic oil & gas



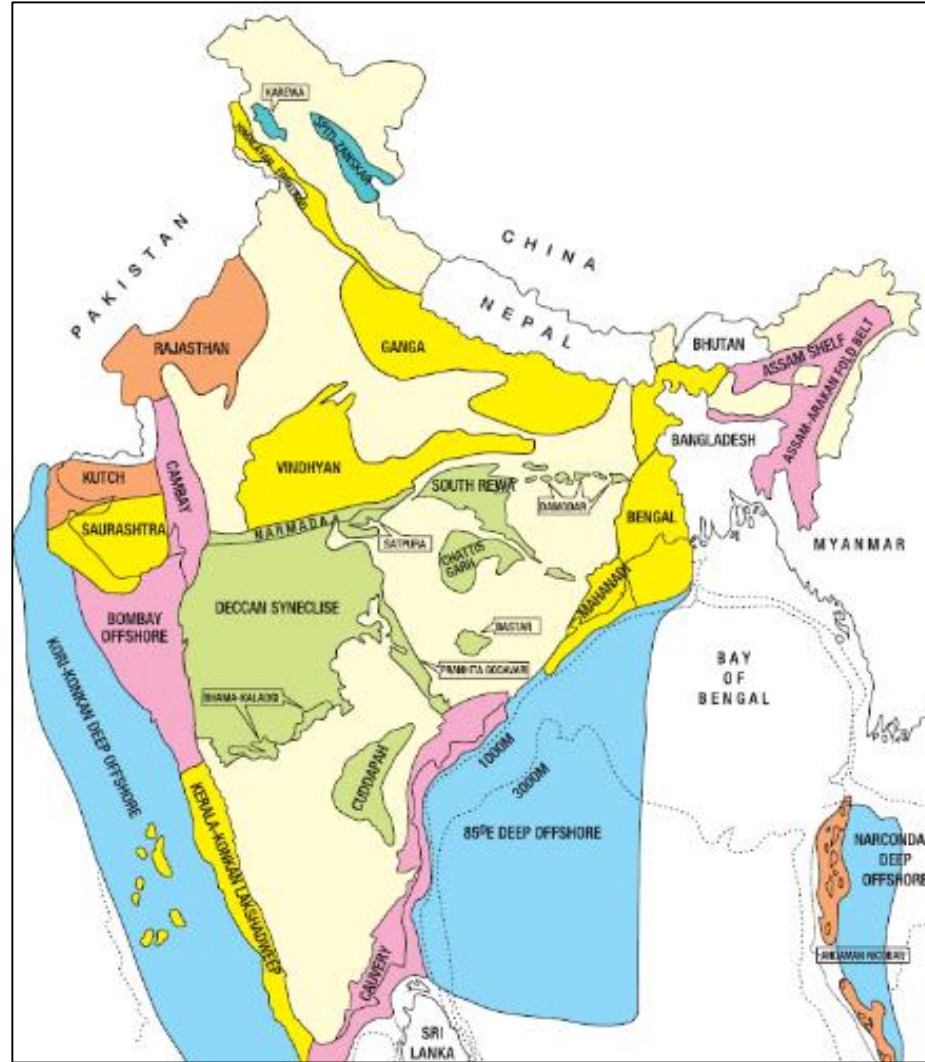
Total Reserves of **In-place** 9245 MMTOE



241 Fields (Offshore & Onshore)



Attractive & flexible options of Partnership in **E&P Opportunities in India**



Global Experience in E&P Partnerships.



In-house capabilities across the E&P Chain with **World Class Institutes**

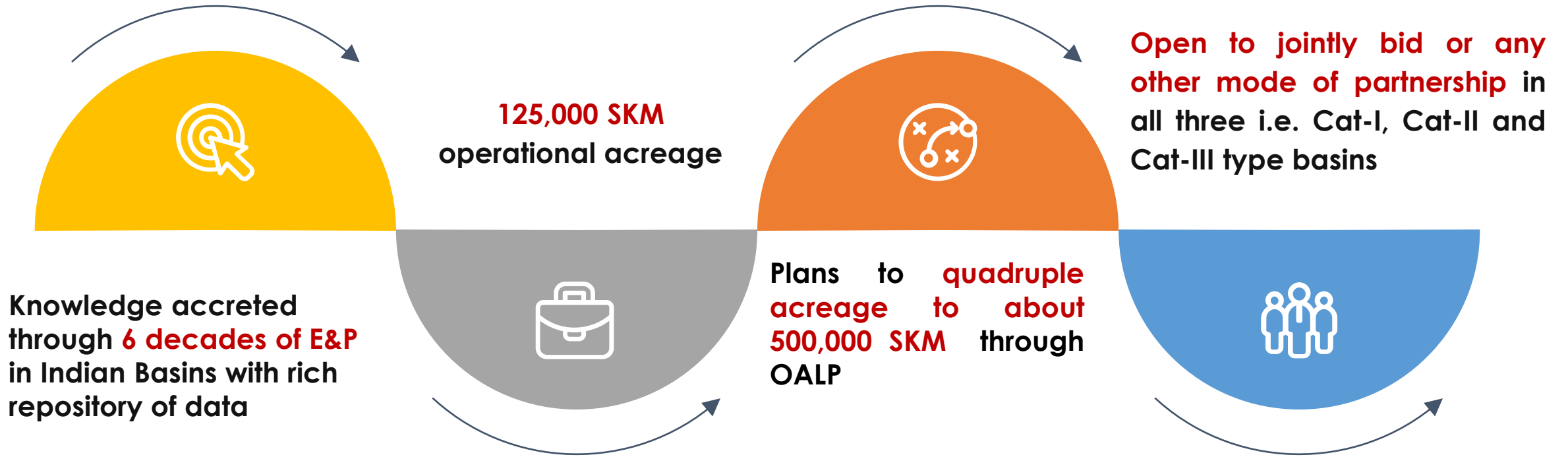


Robust Government Support



Ethics & Sustainability - the core values

Exploration Thrust



Plans in Place for :

- 9000 LKM of 2D Data
- 340,00 SKM of 3D High Quality Seismic
- Drilling of about 550 Exploratory Wells besides 5 new Basin Opening wells
- Exploration Expenditure of about US \$6 Billion

ONGC: Attractive Options of Collaborations



Investment Opportunities in Producing Fields

ONGC seeks partner for enhancement of production through

- 1 **Bid out for Marginal Nomination Fields**
- 2 **Production Enhancement Contract (PEC) for other Producing Fields**
- 3 **Technical Services Model (TSM) for Mature Fields**

Key Objectives

Maximizing Recovery

Maximizing the Recovery

through augmentation of reserves and production

New Technology

Infusion of

New and Innovative E&P Technologies

New Entrants

Encourage Entry of New Companies

into Indian E&P Ecosystem

1. Bid out Marginal Nomination Fields (1/3)

Glimpse of Marginal Nomination Fields (MNF) with 43 Fields across 11 Contract Areas on Offer under bid round-II

1 - Ahmedabad
Contract Areas: 2 Fields: 5
O+OEG in-place: 31.63 MMTOE

2 - Mehsana
Contract Areas: 1 Fields: 3
O+OEG in-place: 20.16 MMTOE

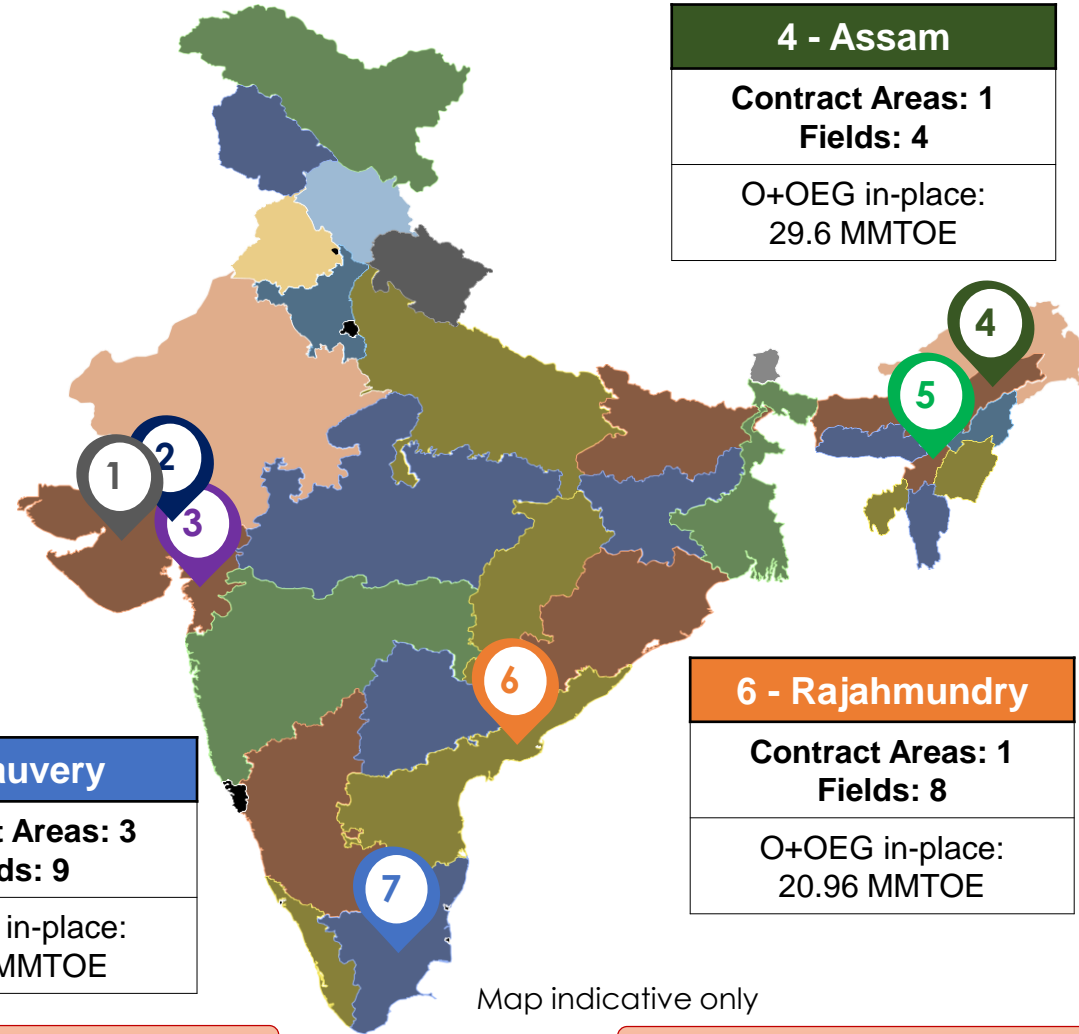
3 - Ankleshwar
Contract Areas: 2 Fields: 13
O+OEG in-place: 32.9 MMTOE

7 - Cauvery
Contract Areas: 3 Fields: 9
O+OEG in-place: 23.48 MMTOE

4 - Assam
Contract Areas: 1 Fields: 4
O+OEG in-place: 29.6 MMTOE

5 - Silchar
Contract Areas: 1 Fields: 1
O+OEG in-place: 1 MMTOE

6 - Rajahmundry
Contract Areas: 1 Fields: 8
O+OEG in-place: 20.96 MMTOE



**43 Fields across
7 Onshore Assets in
4 States of India**

Map indicative only

Total O+OEG in-place volume

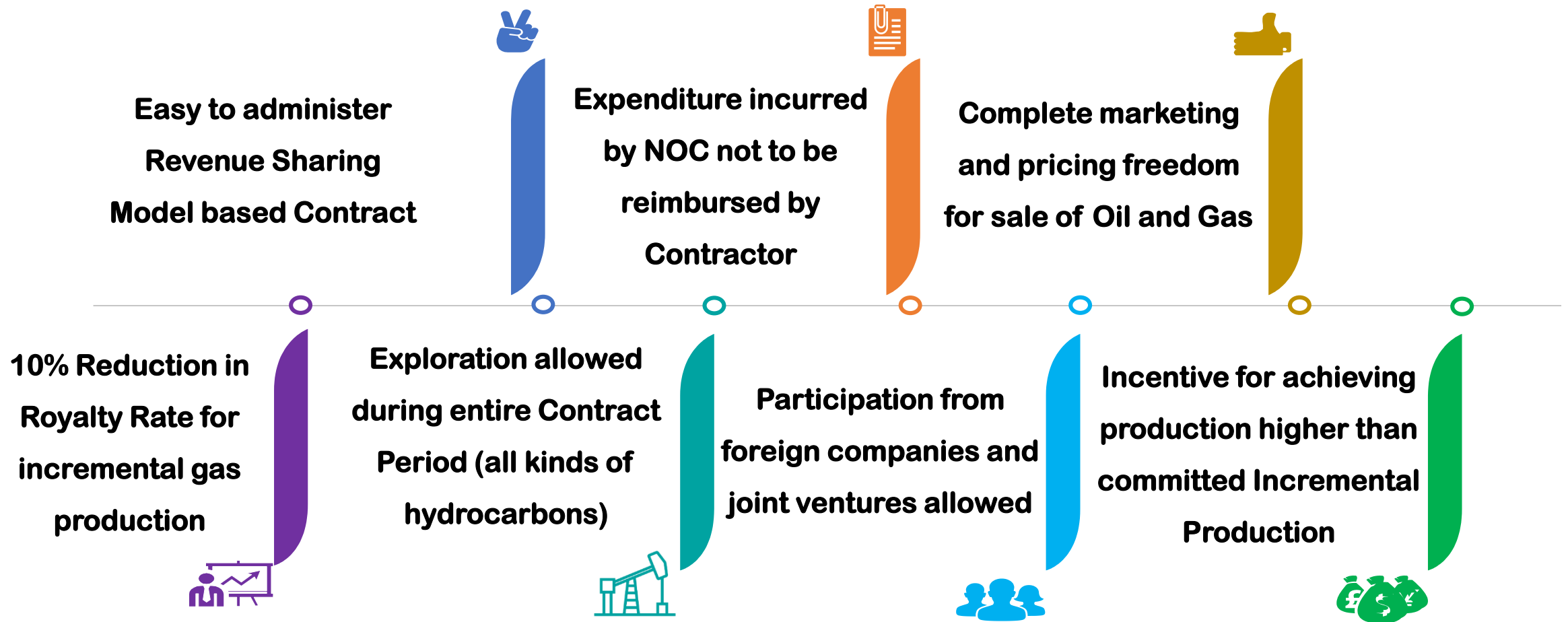
160 MMTOE

Current Production 2021-22

Oil ~480 TPD

Gas ~0.72 MMSCMD

A Safe and Valuable Investment Opportunity



Investor friendly opportunity in producing fields based on "Revenue Sharing contract" with improved "Ease of Administration"

1. Bid out Marginal Nomination Fields (3/3)

Bid Qualification Criteria for MNF Production Enhancement Contract (PEC)



Bidding Entity

- Indian or Foreign Company
- Individually or in consortium (each member company with at least 26% interest)
- All member companies to be jointly and severally liable



Financial Criteria

- Net worth of the bidding company (all member companies of consortium in case of consortium) should be a positive number (and non-zero) as on 31st March 2021 or 31st December 2020, as may be applicable
- Audited Annual Accounts for the latest completed year and certificate of net-worth by statutory auditor to be submitted
- Bid Bond of INR 10,00,000 (or USD 13,500) per Contract Area

Technical Qualification Criteria

Bidder shall meet either Criteria 1 Or Criteria 2 to qualify technically

Technical Criteria 1

Bidding company should have experience in exploration or development or production of hydrocarbons in last 5 (five) years as on 31st March 2021

OR

Technical Criteria 2

Bidding company should have technically qualified personnel with at least 10 years of work experience on its rolls at the time of bid submission, in any three distinct areas out of the six areas indicated in the NIO (i.e. Drilling & Completion, Field operation/ production, HSE, Reservoir Management, G&G activities or senior management experience in E&P company)

2. PEC for Other Producing Fields (1/4)

Glimpse of 6 Other Producing Fields to be Offered

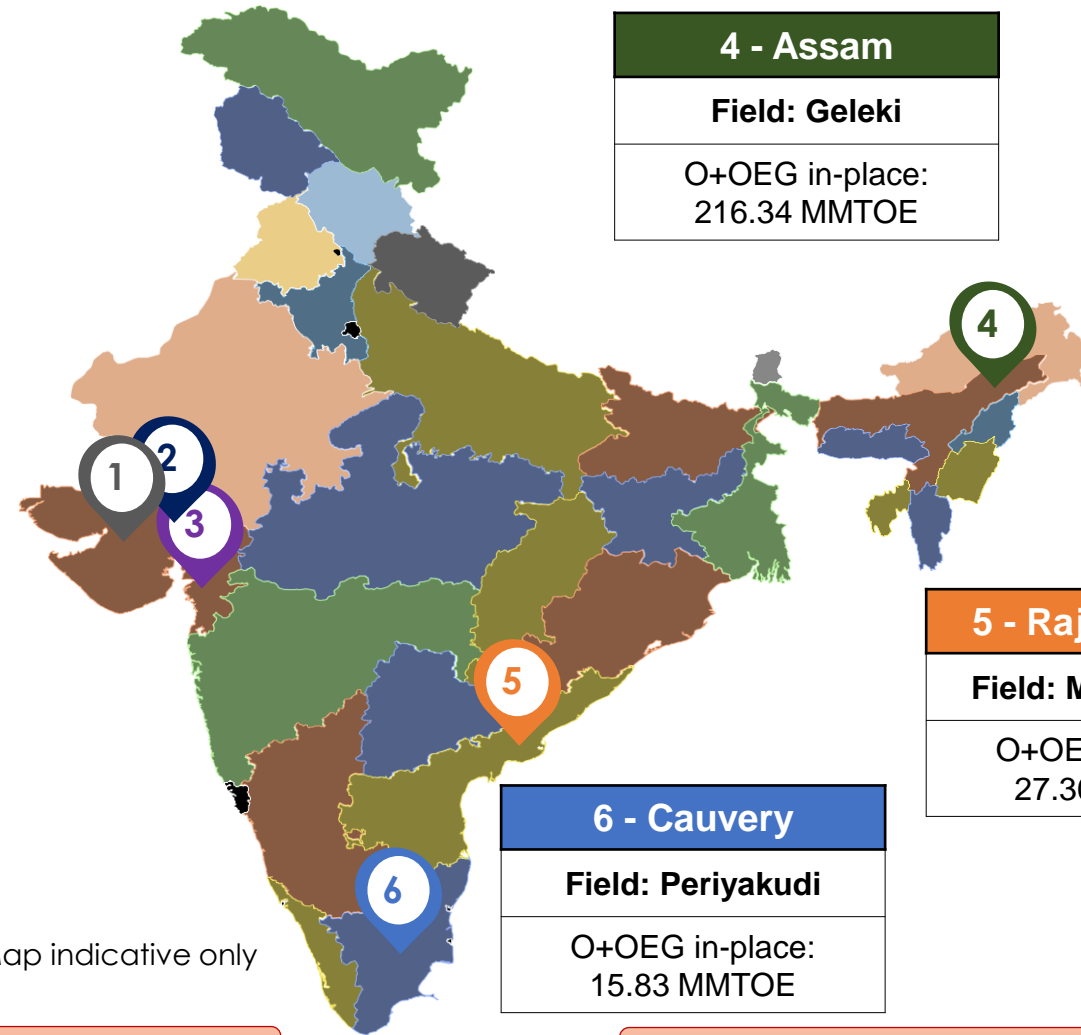
1 - Ahmedabad
Field: Viraj
O+OEG in-place: 10.05 MMTOE

2 - Mehsana
Field: Lanwa
O+OEG in-place: 25.38 MMTOE

3 - Ankleshwar
Field: Gandhar
O+OEG in-place: 241.06 MMTOE

4 - Assam
Field: Geleki
O+OEG in-place: 216.34 MMTOE

6 Fields across 6 Onshore Assets in 4 States of India



5 - Rajahmundry
Field: Malleswaram
O+OEG in-place: 27.30 MMTOE

6 - Cauvery
Field: Periyakudi
O+OEG in-place: 15.83 MMTOE

Map indicative only

Total O+OEG in-place volume

536 MMTOE

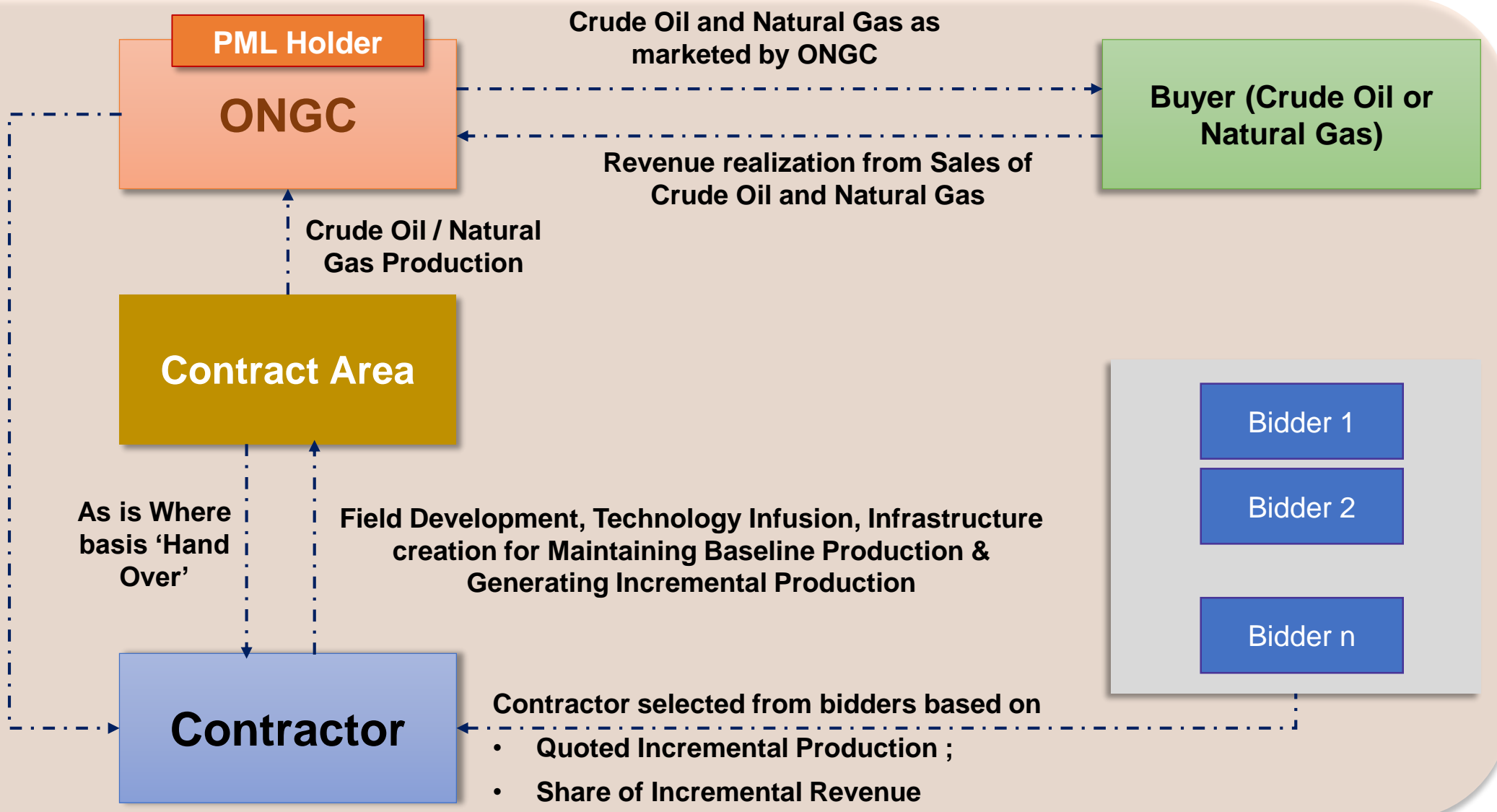
Current Production 2021-22 (H1)

Oil ~16330 BOPD

Gas ~1.57 MMSCMD

Business Model for the Other Producing Fields

- Monthly Fees in the form of Share of Revenue from Incremental Production
- Incentive / Penalty based on performance



2. PEC for Other Producing Fields (3/4)

Bid Qualification Criteria for Other Producing Fields Production Enhancement Contract (PEC)

Participation Rules

- Bidder could be **company individually or in association with other companies**, through a consortium or an incorporated joint venture
- In case of consortium, each member should equal to or more than 26% of equity in the consortium.
- All consortium members shall be jointly and severally liable

Financial Qualification Criteria

Either

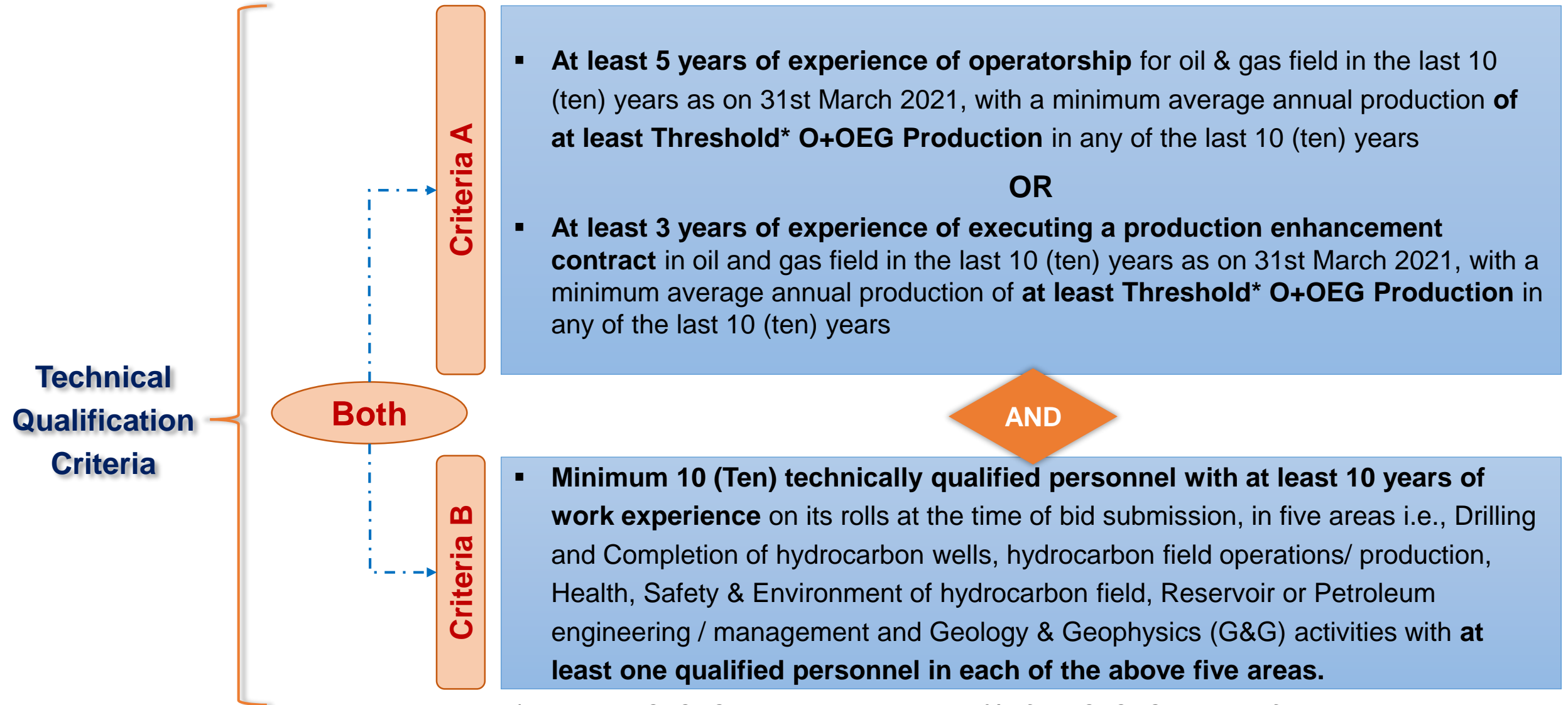
Criteria A

- The **average global turnover of the bidding company** (individually or collectively in case of bidding consortium) for the closed preceding two business years must be **at least 50% of annualized bid value** (based on baseline production indicated in the NIO).
- AND**
- The **net worth** of the bidding company (individually or collectively in case of bidding consortium) should be **at least 15% of annualized bid value** ((based on baseline production indicated in the NIO) as on 31st March 2021 (FY ending March) or 31st December 2020 (FY ending December) as may be applicable. Also, each member company of the consortium should have non-zero positive net worth as on closing of the financial year.

OR

Criteria B

- If unable to meet 'A', then the bidding company (individually or collectively in case of bidding consortium) should have **minimum net worth of USD 1 million** {as on 31st March 2021 (FY ending March) or 31st December 2020 (FY ending December) as may be applicable} and should be able to demonstrate unconditional **access to financial resources/capital of minimum 50% of annualized bid value** (based on baseline production indicated in the NIO) for the period of at least 3 years starting from the date of contract signing.



**Threshold O+OEG Production” means 60% of the O+OEG baseline field production as indicated in the bid document for financial year 2020-21.*

Key Considerations for Technical Services Model

Kalol Field (Ahmedabad)

In-place Oil: 154 MMT
TSM Model for improving HF techniques

Nawagam Field (Ahmedabad)

In-place Oil: 60 MMT
TSM Model for integrating HF

Technical Services Model (TSM)

Scope of Work inline with the specific field requirements for production enhancement. Some of the required technical services (but not limited to) may include Integrated Hydrofracking, Drilling services, logging, cementing, well testing, artificial lift, completions, EOR techniques, modelling & simulation, etc.

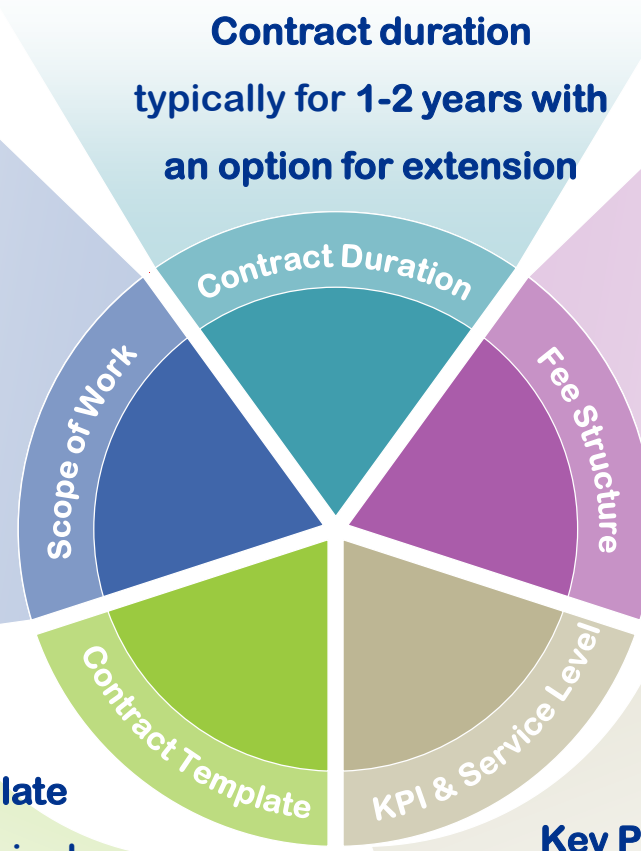
Existing ONGC service contract template may be suitably adapted for the Technical Service required for the fields under consideration

Contract duration typically for 1-2 years with an option for extension

Fee Structure options include

- Fixed Monthly Fee
- or
- Combination of Lumpsum Fee and Variable Rates

Key Performance Indicators and Service Levels defined for the field requirements based on the nature of service



ONGC E-Procurement Portal

- **E-Portal:**
<https://etender.ongc.co.in/irj/portal>
- Easy Bidding Process
- Notice Inviting Offers (NIO) and Model Production Enhancement Contract (MPEC) available on portal
- Geographical location of Contract Areas on map of India
- Bid format, terms and conditions

For further information:

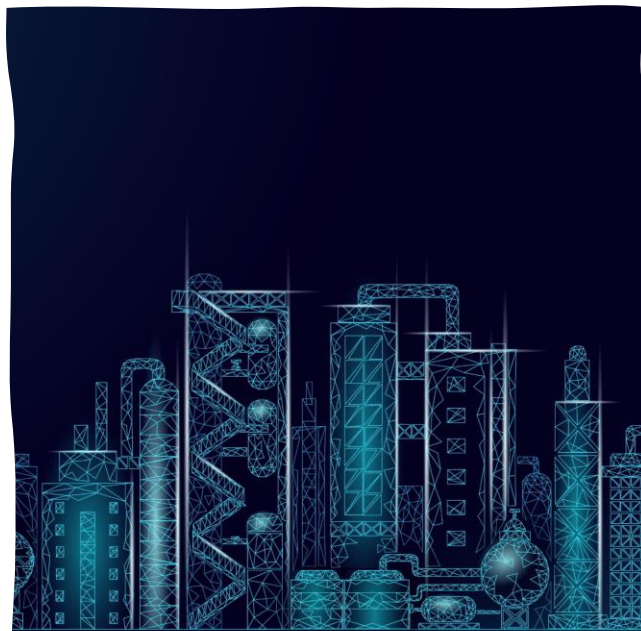
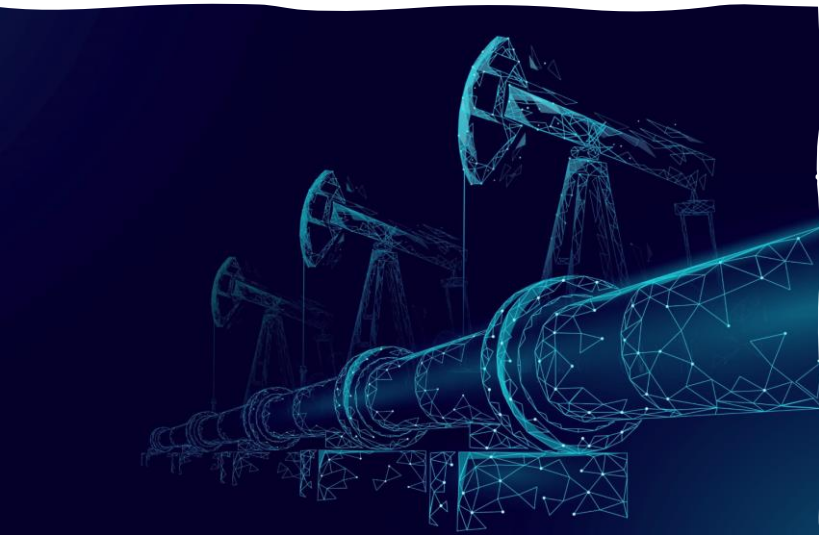
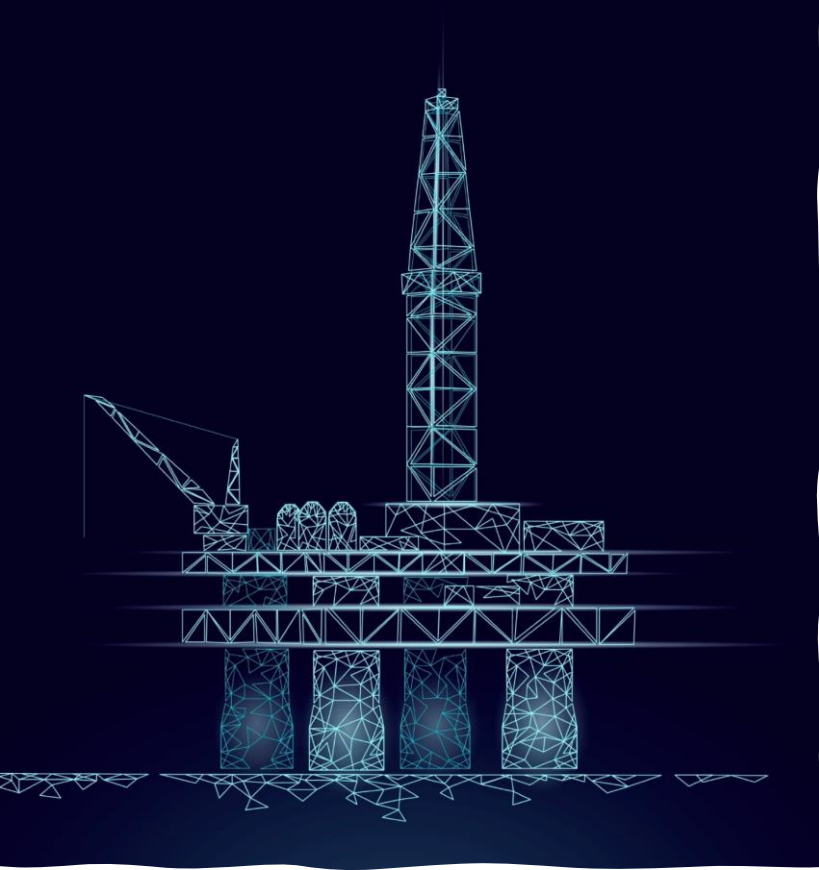
Corporate Website:
www.ongcindia.com

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Green Hills, ONGC ,
Dehradun- 248003, India
chief_p&dd@ongc.co.in



Data Availability

- Field Information Docket
- Information on regional and local geology, concerned fields description, hydrocarbon discovery, Reserves (In-place and Ultimate)
- Data Package in digital mode comprising seismic data, navigation data and well-log data, well completion reports, etc.
- Availability of Data Viewing facility at Institute of Reservoir Studies (IRS), ONGC, Ahmedabad
- Provision to visit fields and related facilities of the contract areas/Fields on offer



Thank You



Oil and Natural Gas Corporation Ltd.

www.ongcindia.com

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Vasant Kunj, New Delhi – 110070