



सत्यमेव जयते

**MINISTRY OF PETROLEUM AND NATURAL GAS**  
**GOVERNMENT OF INDIA**



Sikkim  
Assam  
Meghalaya  
Tripura  
Arunachal Pradesh  
Nagaland  
Manipur  
Mizoram

**INVESTMENT OPPORTUNITIES**  
**IN UPSTREAM OIL & GAS**

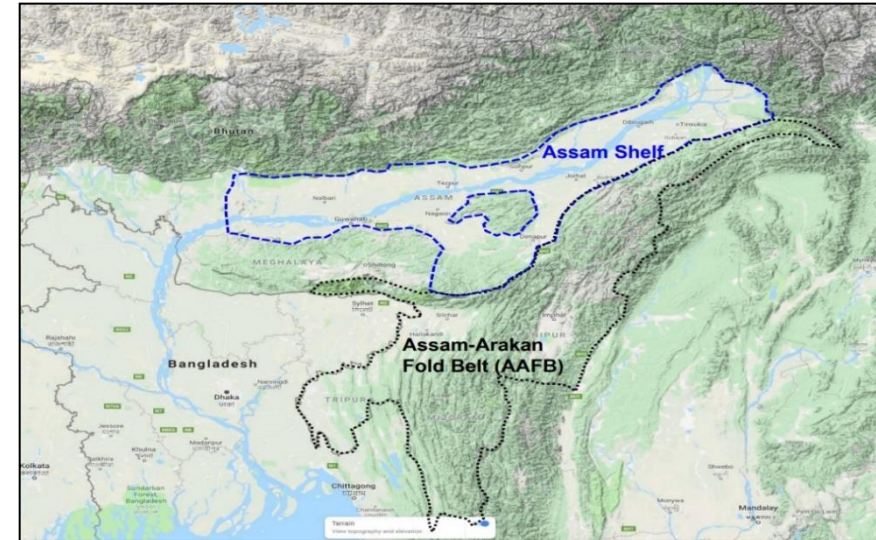
*Guwahati,*  
*24<sup>th</sup> September 2021*

Map indicative only



# Hydrocarbon Resource Potential in NER

Two Sedimentary Basins-  
Assam Shelf and Assam- Arakan Fold Belt  
(Total Basin Area- 1,36,825 sq. kms)



Undiscovered:  
5.6 BTOE

Reserve:  
0.3 BTOE

In-place:  
7.6 BTOE

Discovered :  
2.0 BTOE

Recoverable :  
0.7 BTOE

Produced :  
0.4 BTOE

Intensify  
Exploration

Improve  
Recovery

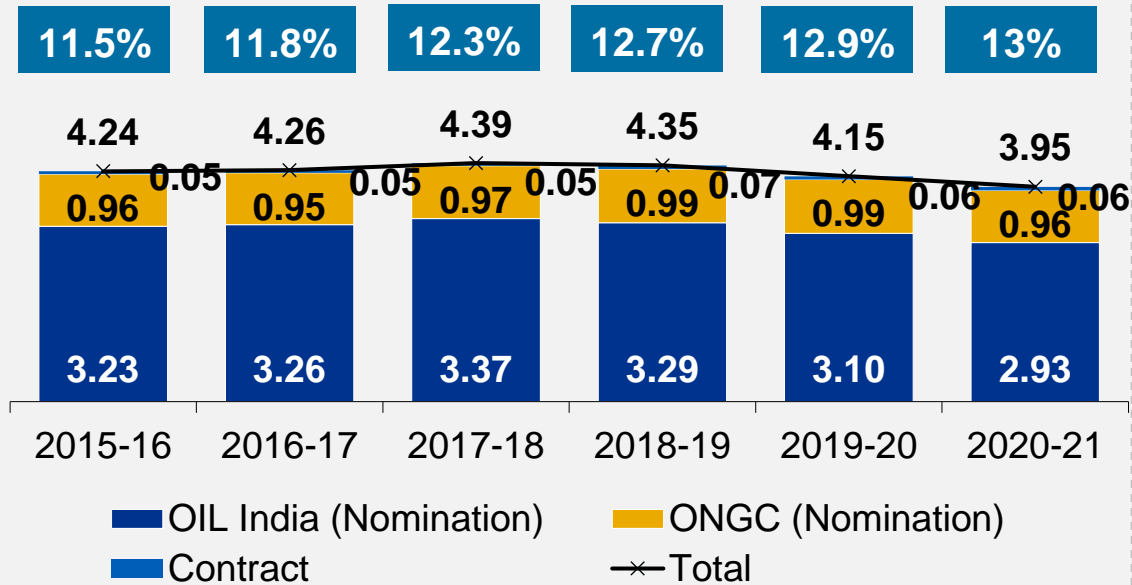
Maximize  
Production

Area under Petroleum Exploration License (PEL) ~ 22% of sedimentary basin area (No. of active PELs- 50)

Area under Petroleum Mining Lease (PML) ~8 % of sedimentary basin area (No. of active PMLs- 99)

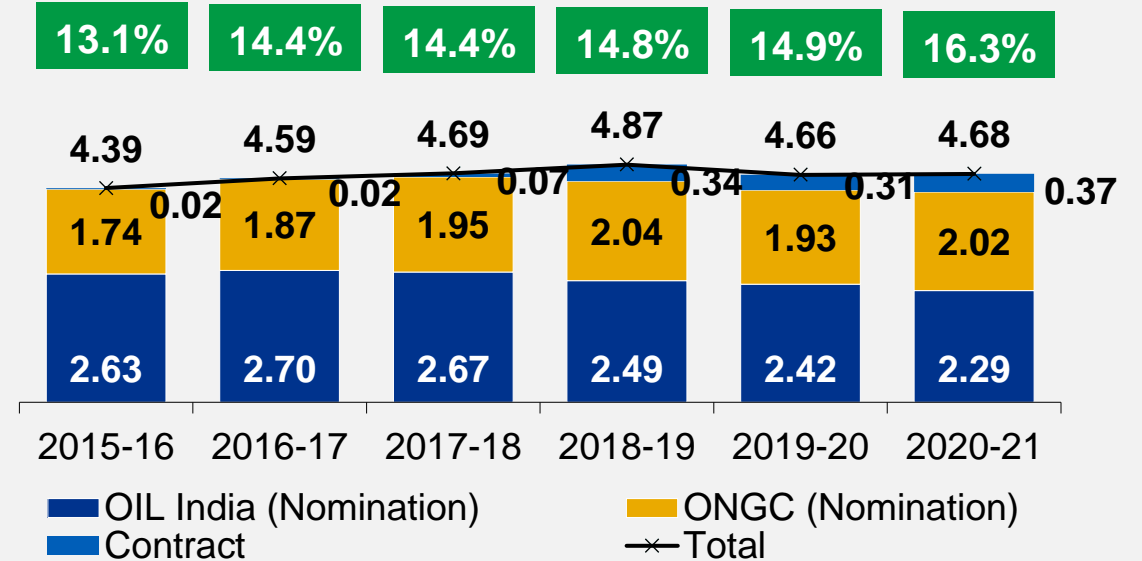
# E&P Industry in NER

## Oil Production (MMT)



Percentage contribution towards Total Domestic Production

## Gas Production (BCM)



Percentage contribution towards Total Domestic Production

No. of Companies  
21

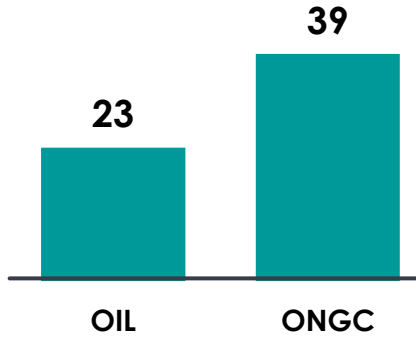
Area under Petroleum  
Exploration License  
~30,000 Sq. Kms.

Area under Petroleum  
Mining Lease  
~11,000 Sq. Kms.

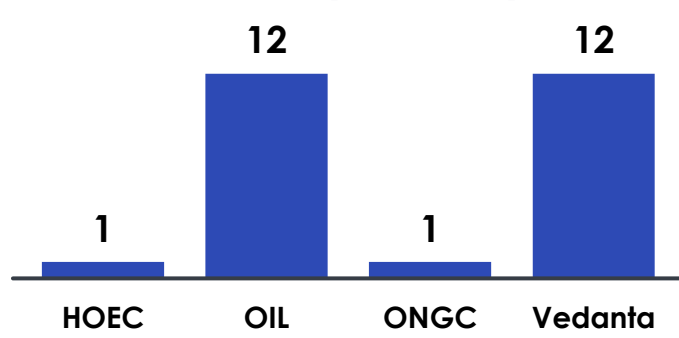
Total Oil and Gas  
Production for FY 20-21  
8.6 MMTOE  
(15% of total domestic production)

# Regime Wise E&P Investors in NER

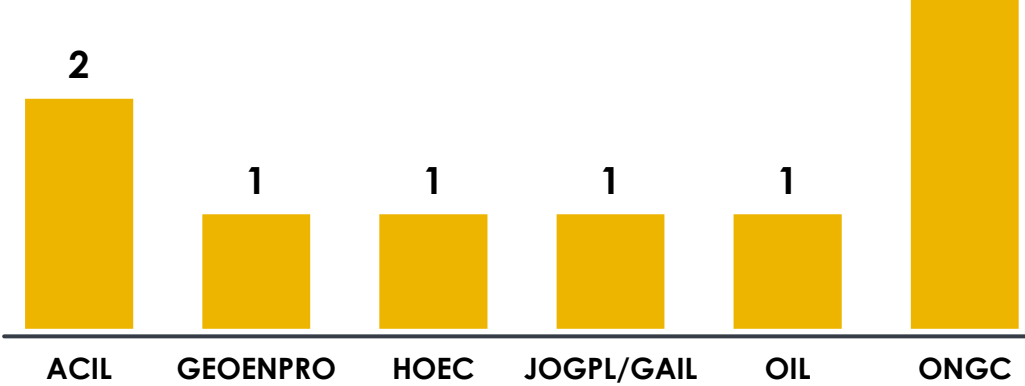
**Nomination Regime  
(62 PEL/PMLs)**



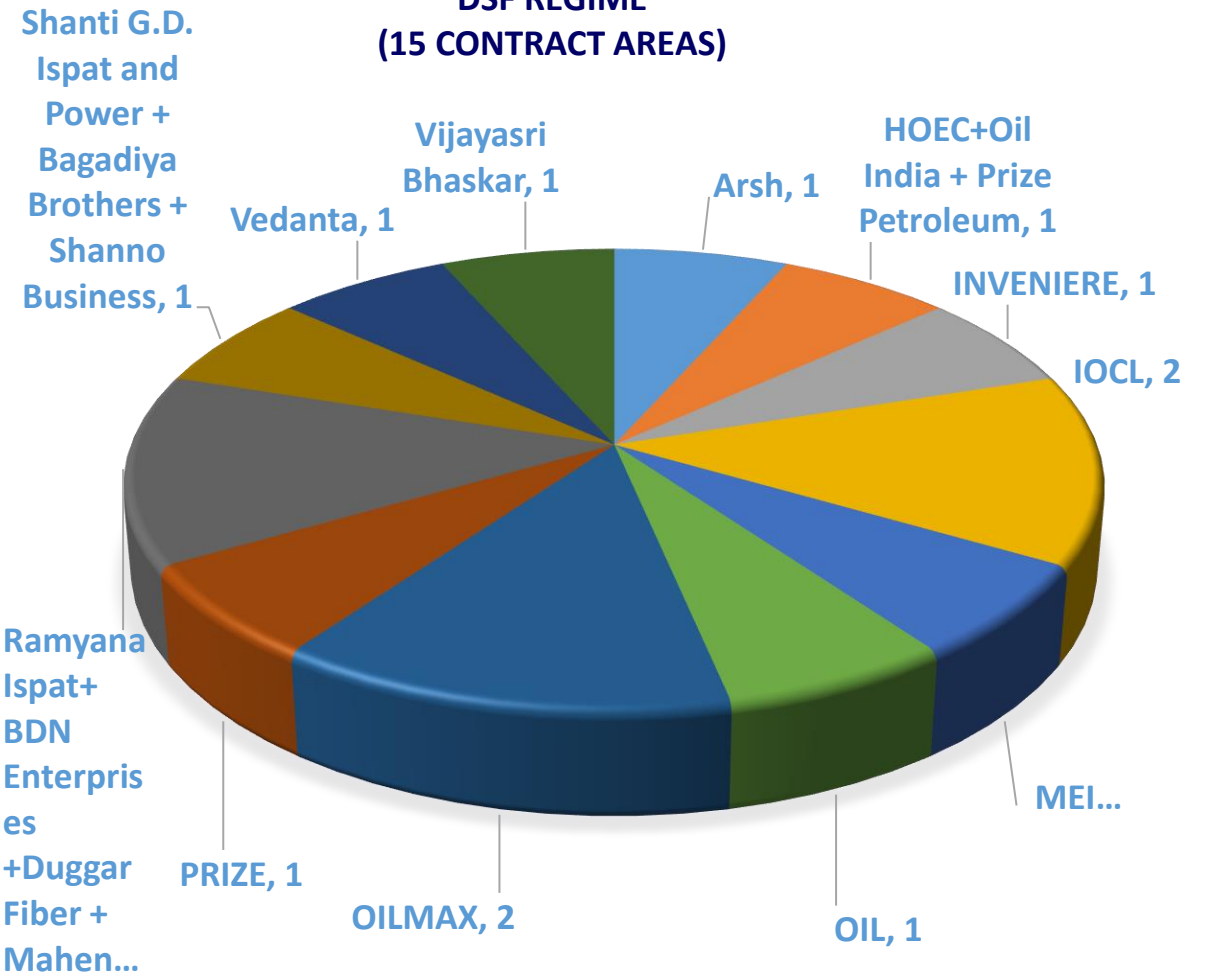
**HELP Regime  
(26 Blocks)**



**Pre-NELP/NELP Regime  
(9 PEL/PMLs)**



**DSF REGIME  
(15 CONTRACT AREAS)**



**21 E&P companies under various Regimes (Nomination, Pre-NELP/NELP, HELP, DSF)**

# Investment Opportunities

## India Provides Huge Potential and Conducive Business Environment for Exploration and Production

### Hydrocarbon Exploration and Licensing Policy (HELP)

- **Revenue sharing mechanism**, reducing regulatory burden
- **Unified license** for all hydrocarbons with **full freedom for marketing & pricing**
- **Graded royalties** and other fiscal incentives
- Freedom to bidders to **carve out their own blocks**
- **105 blocks awarded in 5 OALP rounds**, totalling **1,56,579 sq. km** of acreage.
- **OALP Bid round-VI has been launched- 21 Blocks on offer covering ~35,500 Sq. Km of area**

### DSF Rounds

- **Attracted investors to small and isolated fields** with discovered hydrocarbon potential
- Discovered Fields - No exploration risk
- Technical experience not required
- **DSF I and II rounds** - Award of **54 Contract Area** (total area of **3,777 sq. km**)
- **DSF Bid round-III has been launched- 32 Contract areas on offer covering ~14,500 Sq. Km of area**

### CBM Round-2021

- **15 CBM Blocks on Offer with total area of ~8500 sq.km spread across six (06) states**
- **Offered blocks covering four sedimentary basins-**
  - **Bengal-Purnea (No. of blocks- 03)**
  - **South Rewa (No. of blocks- 09)**
  - **Satpura (No. of blocks- 01)**
  - **Pranhita-Godavari (No. of blocks- 02)**
- **No Revenue Sharing** till Windfall Gain

# Hydrocarbon Exploration and Licensing Policy (HELP)

## Blocks on offer in OALP Bid round VI

- 21 OALP blocks
- 11 Basins covered
- ~35,500 sq.km on offer

*Bidding window for OALP Round-VI is open till 6<sup>th</sup> October 2021*

### 1 – Ganga-Punjab Basin

- 2 Blocks (611 sq.km)
- Both Onland

### 2 - Kutch Basin

- 1 Blocks (314 sq.km)
- Onland

### 3 – Cambay Basin

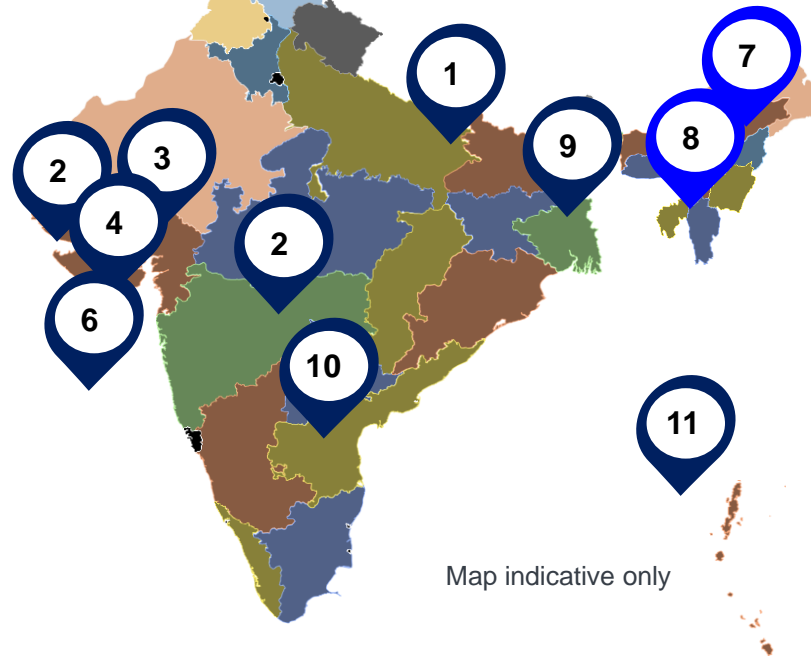
- 4 Blocks (659 sq.km)
- (Onland - 3, Shallow Water - 1)

### 4 – Saurashtra Basin

- 1 Blocks (2,484 sq.km)
- Onland

### 5- Narmada Basin

- 1 Blocks (2,999 sq.km)
- Onland



Map indicative only

### 6 – Mumbai Offshore Basin

- 3 Blocks (7,566 sq.km)
- All Shallow Water

### 7 - Assam Shelf Basin

- 1 Blocks (25 sq.km)
- Onland

### 8 – Assam Arakan Fold Belt

- 4 Blocks (865 sq.km)
- Onland

### 9 – Bengal Purnea Basin

- 1 Blocks (2,873 sq.km)
- Onland

### 10- Cuddapah Basin

- 1 Blocks (3,306 sq.km)
- Onland

### 11- Andaman Nicobar Basin

- 2 Blocks (13,645 sq.km)
- 2 Ultra-Deep Water

**5 blocks under offer in Assam Shelf & Assam Arakan Fold Belt, covering a total area of 890 sq.km.**

# Discovered Small Field Policy

**Broadening the operator base : 27 Companies including 12 new entrants**

## Policy Features

- ❑ **Single License for Conventional and Unconventional Hydrocarbons**
- ❑ **Exploration allowed during entire contract period**
- ❑ **Royalty in line with HELP and no Cess**
- ❑ **No upfront Signature Bonus**
- ❑ **100% participation from foreign companies/JV**



DSF Rounds	Awarded Contracts
DSF-I (2017)	30
DSF-II (2019)	24
<b>Total</b>	<b>54</b>

### Field Development Plans (FDPs) - 29

**Hydrocarbon In-place  
~ 100 MMTOE**

**Anticipated Investment  
~ 1.76 billion USD**

First MOPU in Western Offshore at B-80 Field



Rig in place & Flaring at Hazarigaon

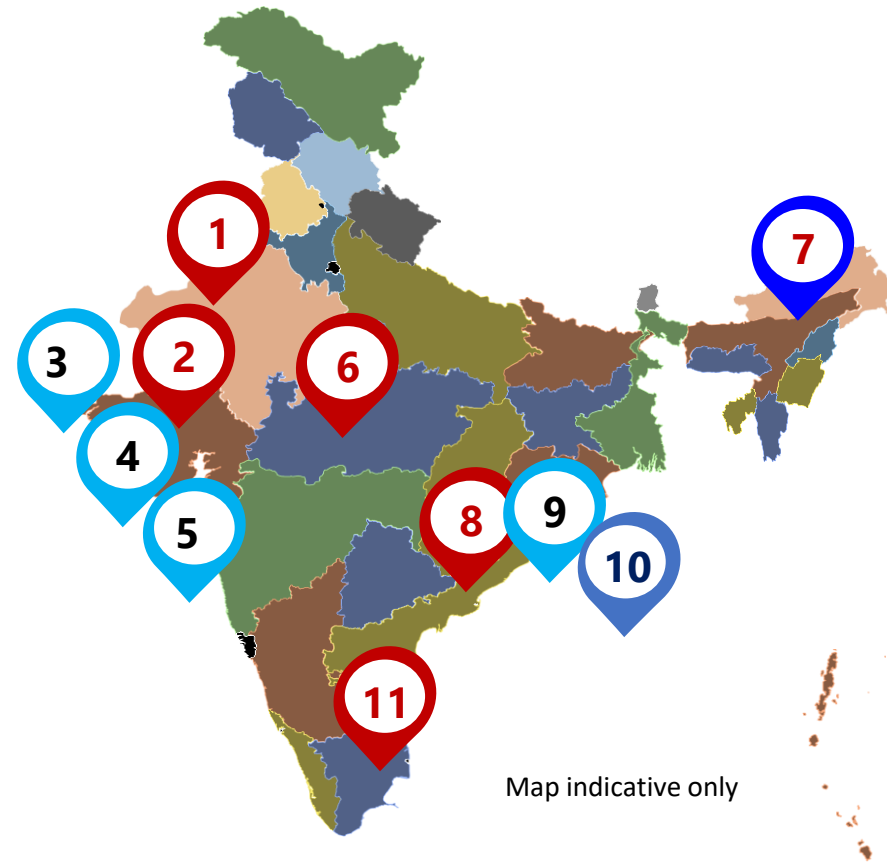


Well site, Kamboi Field, Gujarat



# Contract Areas on Offer in DSF Bid Round-III

<b>1 – Rajasthan</b>
Contract Area: 2 Discoveries: 3
<b>2 - Gujarat</b>
Contract Area: 1 Discoveries: 1
<b>3 – Gujarat-Kutch Offshore</b>
Contract Area: 2 Discoveries: 9
<b>4 – Cambay Offshore</b>
Contract Area: 2 Discoveries: 5
<b>5- Mumbai Offshore</b>
Contract Area:10 Discoveries: 22



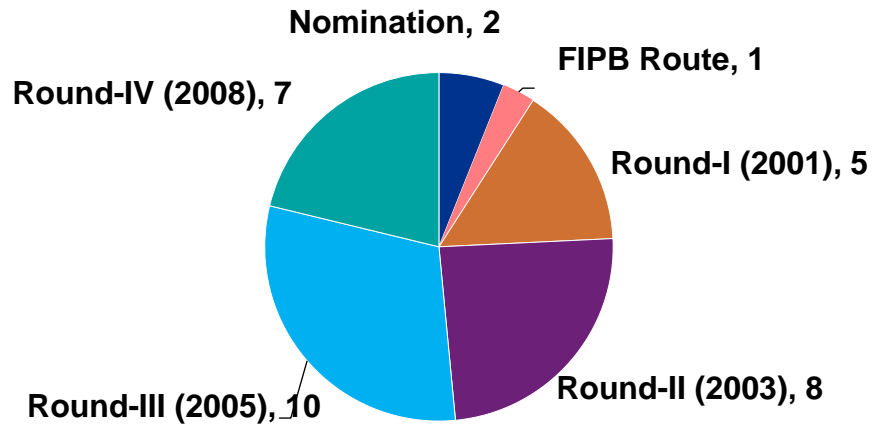
<b>6- Madhya Pradesh</b>
Contract Area: 1 Discoveries: 2
<b>7 – Assam</b>
Contract Area: 3 Discoveries: 4
<b>8 – Andhra Pradesh</b>
Contract Area: 3 Discoveries: 8
<b>9 – KG Offshore (SW)</b>
Contract Area: 6 Discoveries: 18
<b>10 – KG Offshore (DW)</b>
Contract Area: 1 Discoveries: 2
<b>11- Tamil Nadu</b>
Contract Area:1 Discoveries: 1

Type	Discoveries	Contract Area	Area (Sq. Km)	Hydrocarbon Resource (MMTOE)
Onshore	19	11	3271.1	24.3
Shallow Water	54	20	9729.4	205.2
Deepwater	02	01	203.9	2.5
				<b>232 MMTOE</b>



# Snapshot of Earlier Coal Bed Methane (CBM) Rounds

Blocks awarded in previous rounds  
(Total Blocks Awarded-33)



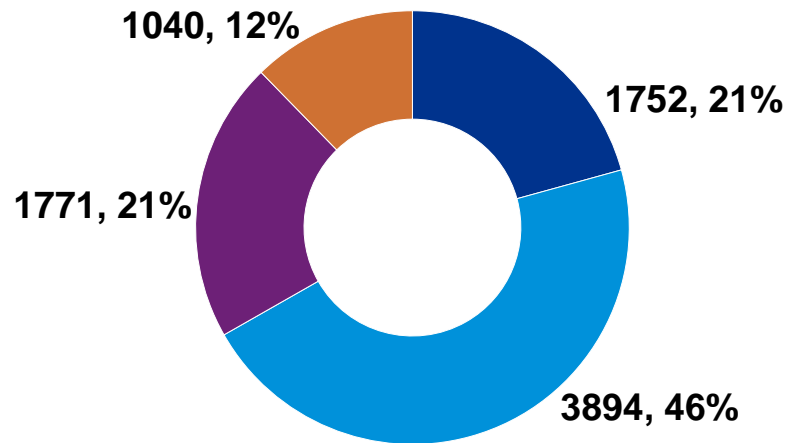
Investment Incurred: **2 Billion USD.**

Cumulative Production Achieved : **~4400 MMSCM**

# Special CBM Bid Round-2021

## 15 Coal Bed Methane (CBM) Blocks in 6 states

### Basin Wise Area (Sq. Kms.)



■ Bengal-Purnea      ■ South Rewa  
■ Satpura              ■ Pranhita-Godavari

**Prognosticated Resources  
~700 BCM**

1

All Blocks on offer in Category-III basin i.e. no revenue sharing until windfall gain.

2

Single License for Conventional & Un-conventional Hydrocarbon

3

Full Marketing and Pricing Freedom for Gas produced.

4

Exploration allowed during entire contract period.

5

No overlap with existing/proposed Coal Blocks/Mines and Forest land.

6

100% participation from foreign companies/Joint ventures.

7

Gas Pipeline infrastructure through GAIL Pradhan Mantri Urja Ganga Pipeline

# Coal Bed Methane Bid Round-2021- Area on offer

## 1 – Bengal-Purnea Basin

- 3 Blocks
- **States Covered-** Jharkhand and West Bengal

## 2 - South Rewa Basin

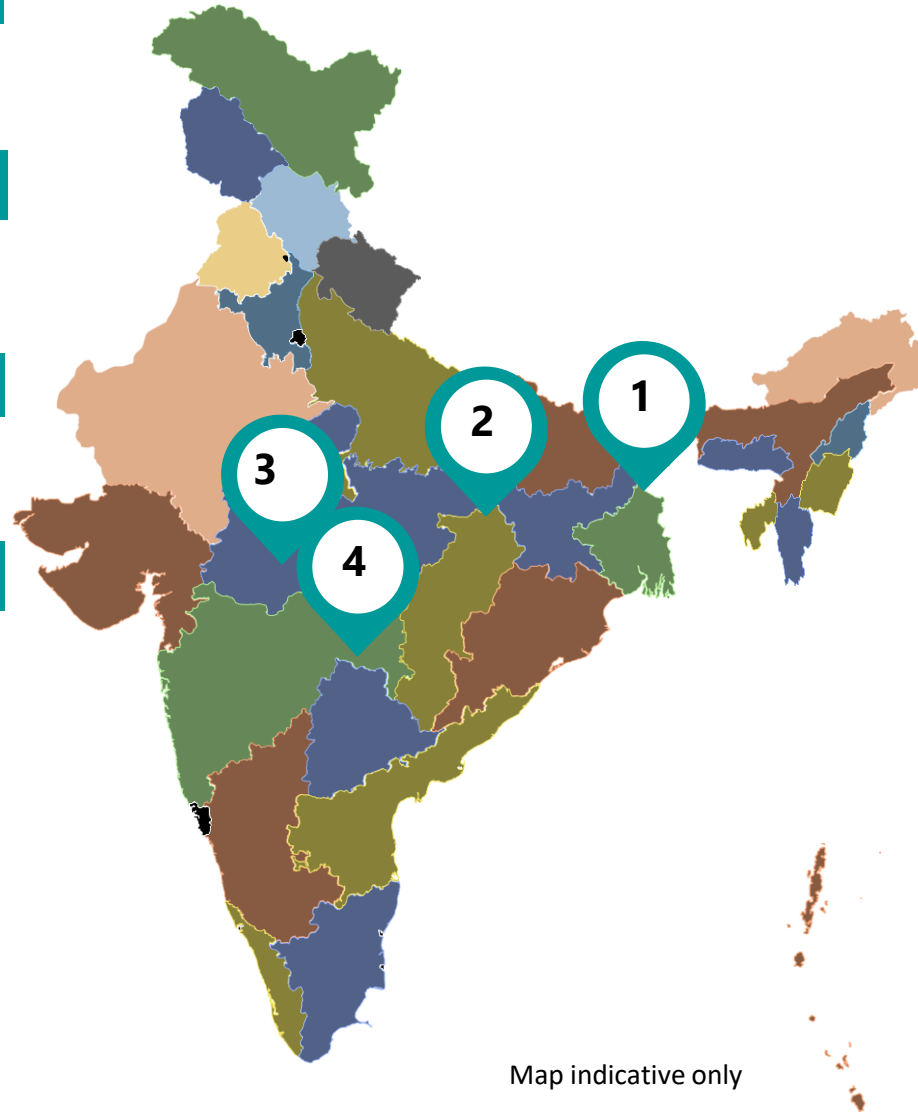
- 9 Blocks
- **States Covered-** Madhya Pradesh, Chhattisgarh, Odisha

## 3 – Satpura Basin

- 1 Block
- **States Covered-** Madhya Pradesh

## 4 - Pranhita-Godavari Basin

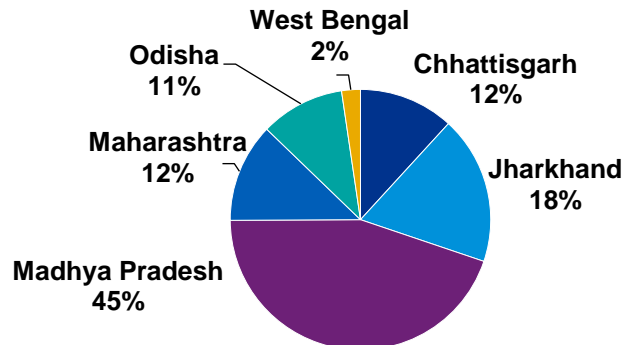
- 2 Blocks
- **States Covered-** Maharashtra



## Details of Blocks on Offer

Sl. No.	BASIN	BLOCK	STATE	AREA (SQ.KM.)
1	Bengal-Purnea	BP-ONHP(CBM)-2021/1	Jharkhand	564
		BP-ONHP(CBM)-2021/2	Jharkhand	991
		BP-ONHP(CBM)-2021/3	West Bengal	197
2	South Rewa	SR-ONHP(CBM)-2021/1	Madhya Pradesh	272
		SR-ONHP(CBM)-2021/2	Madhya Pradesh	222
		SR-ONHP(CBM)-2021/3	Chhattisgarh	408
		SR-ONHP(CBM)-2021/4	Madhya Pradesh	418
		SR-ONHP(CBM)-2021/5	Madhya Pradesh	515
		SR-ONHP(CBM)-2021/6	Madhya Pradesh	585
		SR-ONHP(CBM)-2021/7	Chhattisgarh	590
		SR-ONHP(CBM)-2021/8	Odisha	191
		SR-ONHP(CBM)-2021/9	Odisha	693
3	Satpura	SP-ONHP(CBM)-2021/1	Madhya Pradesh	1771
4	Pranhita-Godavari	PG-ONHP(CBM)-2021/1	Maharashtra	331
		PG-ONHP(CBM)-2021/2	Maharashtra	709
<b>Total</b>				<b>8458</b>

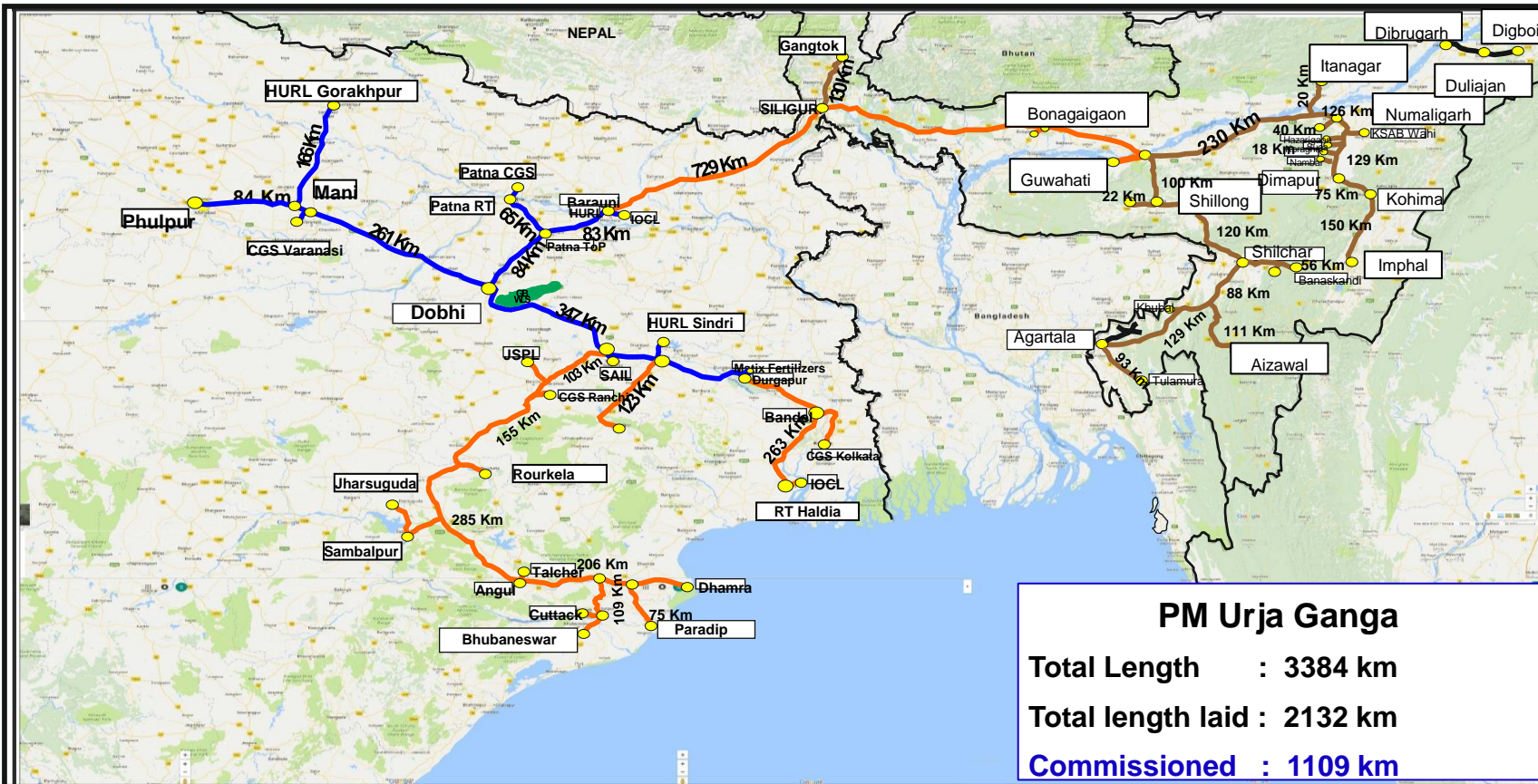
## State Wise Area Distribution Total Area- 8,458 Sq. Kms



# Pipeline Infrastructure Plan in NEER

## North East Natural Gas Pipeline Grid (NEGG)

## Implementation Schedule Of NEGG



Phase	Section Name	Section Length (Km)	Length (Km)	Dia (Inch)	Compl. Date
I	Guwahati-Numaligarh	386	413	24	Mar' 2023
	Gohpur-Itanagar	27		8	
	Silchar Panisagar	112	234	18	Sept' 2023
	Panisagar-Agartala	118		12	
	Khubal Feeder Line	4		12	
II	Silchar CGD	56	621	12	Sept' 2023
	Guwahati-Silchar	196		18	
	Panisagar-Aizawl	127		12	
	Dergaon-Dimapur	128		12	
	Agartala-NEEPCO Spurline	6		12	
	Shillong CGD	22		8	
	Tulamura Feeder line	86		12	
III	Dimapur-Kohima-Imphal	180	304	12	Mar 2024
	Siliguri-Gangtok	124		12	

Length of Pipeline Grid  
1656 Kms

Throughput  
4.75 MMSCMD

Gas Source  
BGPL & Indigenous sources

Capex  
INR 9265 crore

Delivery Locations  
Numaligarh, Silchar, Shillong, Itanagar, Dimapur, Kohima, Imphal, Agartala, Aizawl, Gangtok

# Key touch points for facilitation



Ministry of Petroleum and  
Natural Gas

Website- <http://petroleum.nic.in/>

Contact us:

<https://mopng.gov.in/en/about-us/phone-directory>

**DGH**

Directorate General of  
Hydrocarbons

Website- <http://dghindia.gov.in/>

Contact us:

[http://dghindia.gov.in/contact\\_english.php](http://dghindia.gov.in/contact_english.php)

National Data Repository

Website- <https://www.ndrdgh.gov.in/NDR/>

Email: [indr@dghindia.gov.in](mailto:indr@dghindia.gov.in)

Hydrocarbon Exploration and Licensing Policy  
OALP Bid Rounds

Website- <http://online.dghindia.org/oalp/>

Facilitation Desk

Email: [Facilitationoal@dghindia.gov.in](mailto:Facilitationoal@dghindia.gov.in)

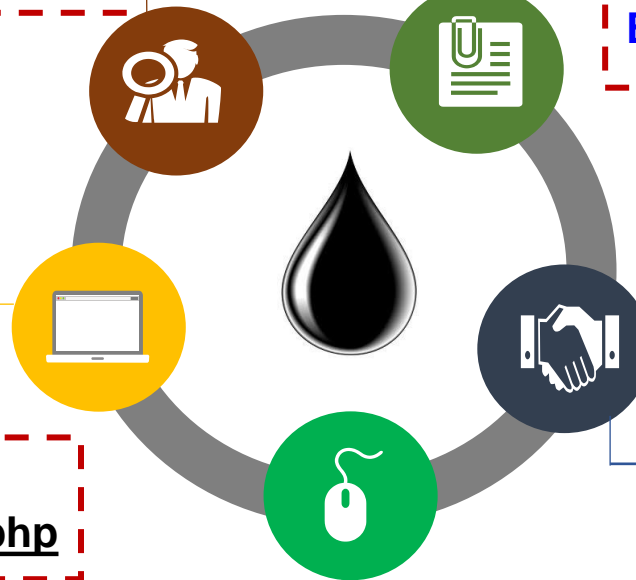
DSF Bid Rounds

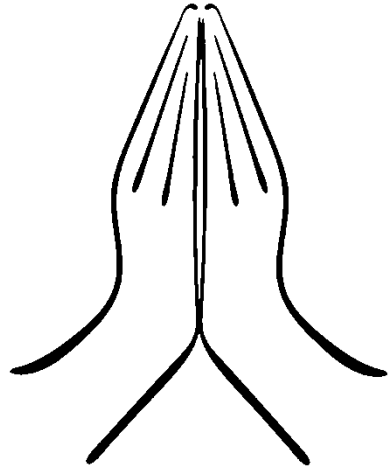
Website- <http://online.dghindia.org/dsf3>

Facilitation Desk

Email: [Facilitationdsf@dghindia.gov.in](mailto:Facilitationdsf@dghindia.gov.in)

*For DSF, Data is available on cloud*





THANK YOU

