



पेट्रोलियम एवं प्राकृतिक गैस मंत्रालय
MINISTRY OF PETROLEUM AND NATURAL GAS
Government of India

सत्यमेव जयते



Offshore Bid Round (OALP-IX) – India

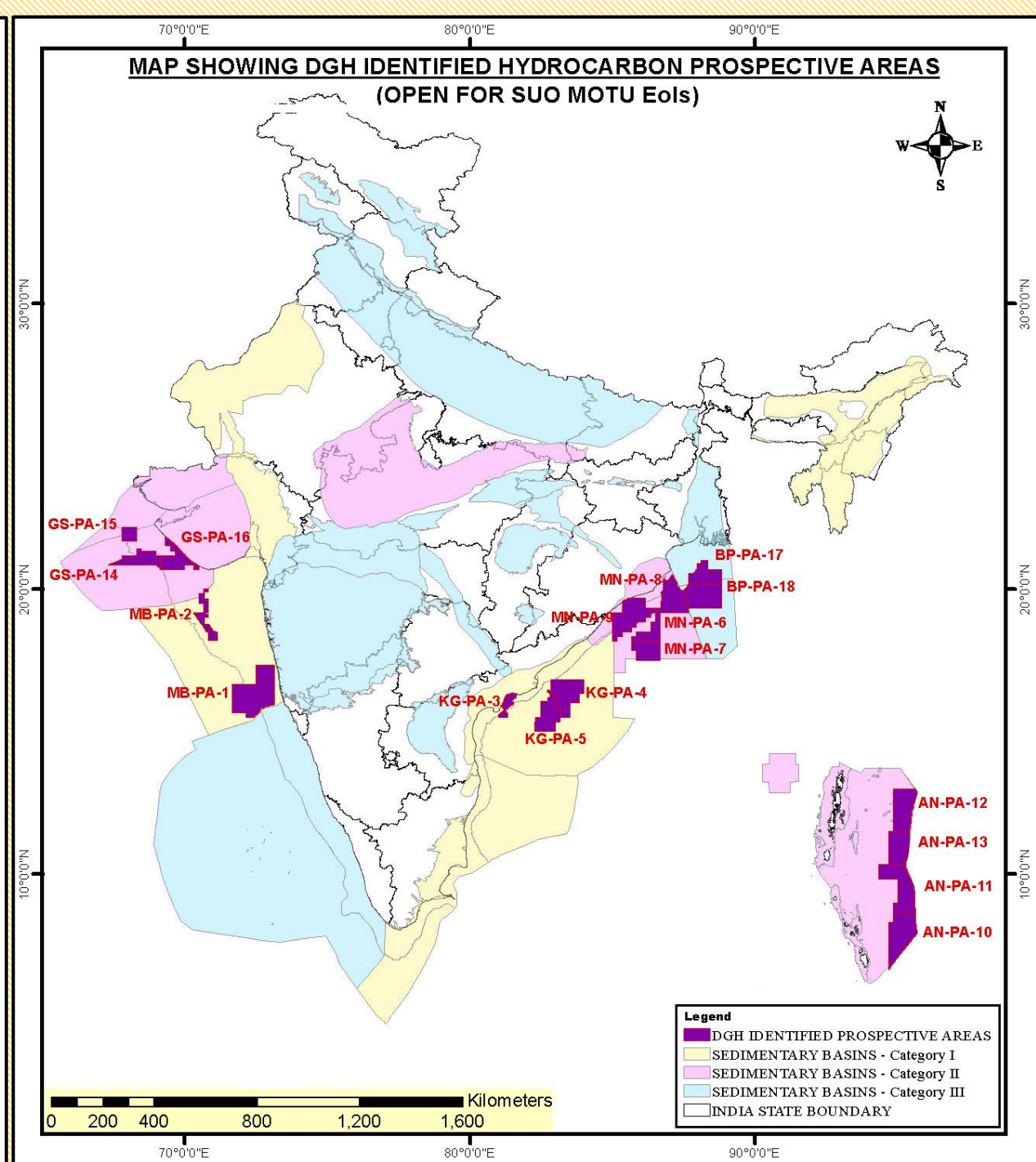
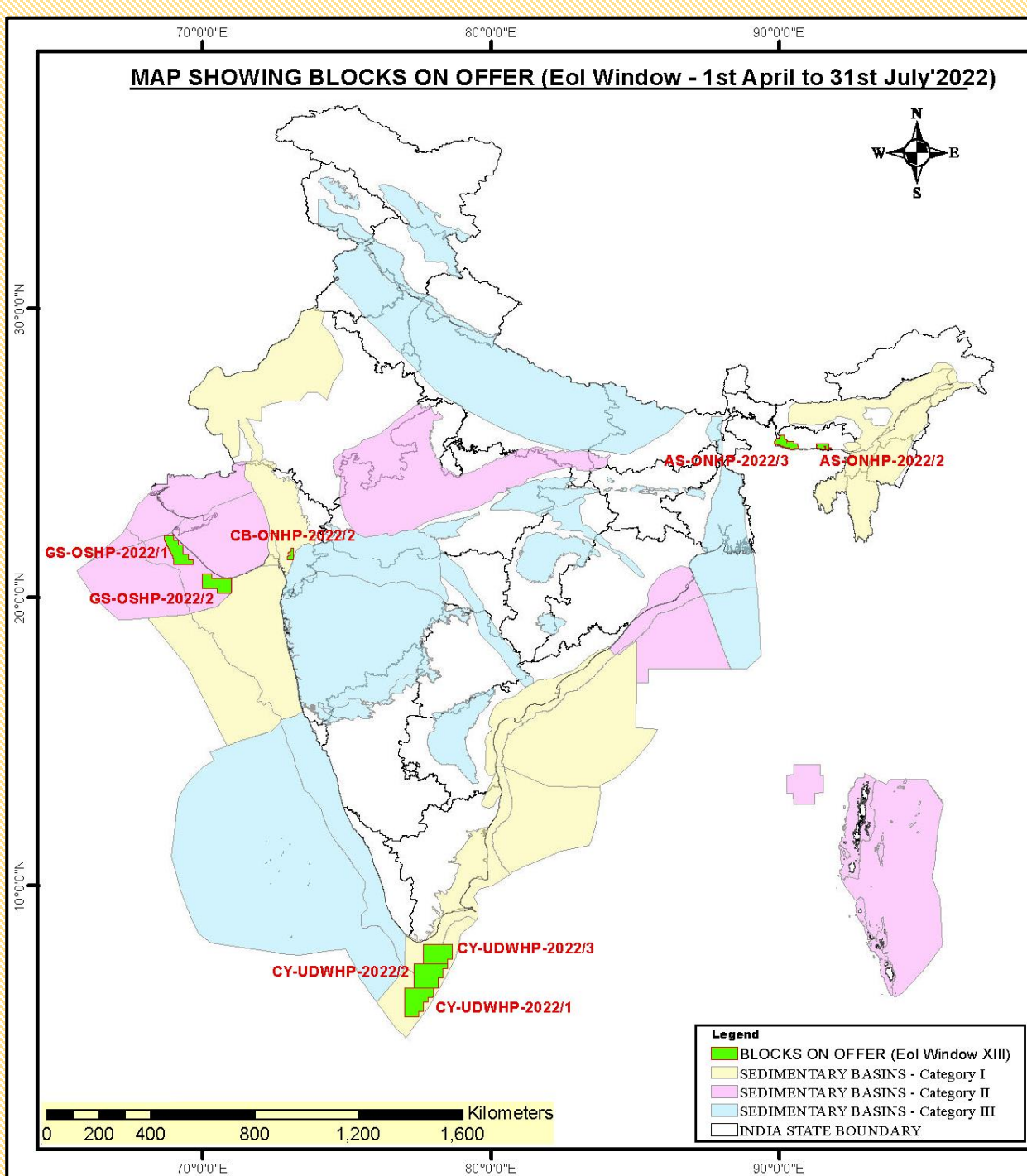
9 basins | 18 Identified Prospective Areas+8 Blocks | 220,000+ SQ KM Area

Email :- facilitationoal@dghindia.gov.in

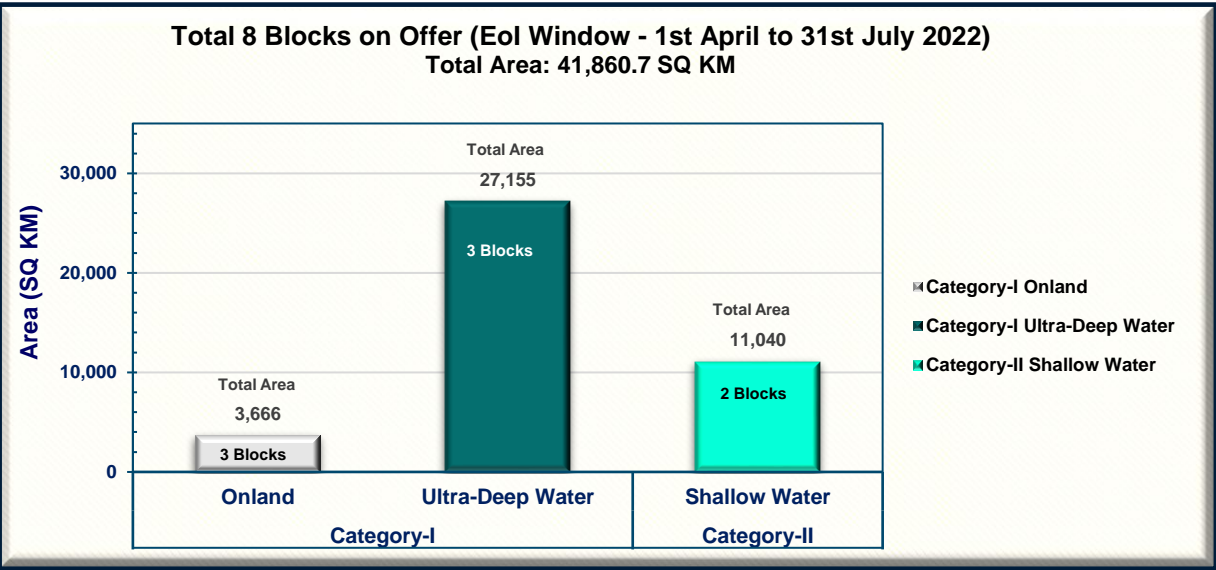
Phone- +91-120-2472000

Web: www.dghindia.gov.in

Fax- +91-1202472049

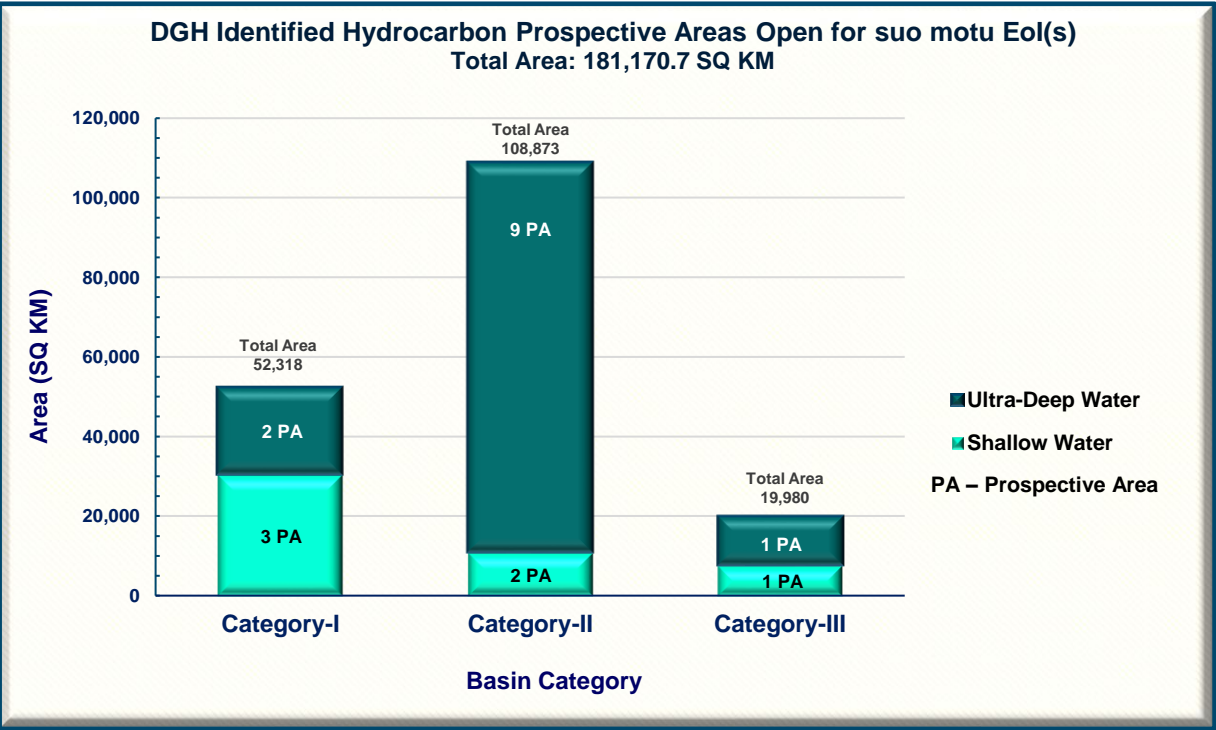


Details of 8 Blocks on Offer (Eol Window - 1st April to 31st July 2022)*					
S. No.	Basin Category	Basin	Name of Block	Area (SQ KM)	Type
1	Category-I	Cambay Basin	CB-ONHP-2022/2	713.92	Onland
2		Assam Shelf Basin	AS-ONHP-2022/2	784.32	
3		Assam Shelf Basin	AS-ONHP-2022/3	2168.09	
4		Cauvery Basin	CY-UDWHP-2022/1	9514.63	Ultra-Deep Water
5		Cauvery Basin	CY-UDWHP-2022/2	9844.72	
6		Cauvery Basin	CY-UDWHP-2022/3	7795.45	
7	Category-II	Saurashtra Basin	GS-OSHP-2022/1	5585.61	Shallow Water
8		Saurashtra Basin	GS-OSHP-2022/2	5453.96	
Total Area				41,860.7	



**Additional Blocks shall be added after completion of Eol window - 1st April to 31st July 2023*

DGH Identified Hydrocarbon Prospective Areas Open for suo motu Eol(s)					
S. No.	Basin Category	Basin	DGH Identified Area	Area (SQ KM)	Type
1	Category-I	Mumbai	MB-PA-1	22377.31	Shallow Water
2		Mumbai	MB-PA-2	5195.56	
3		Krishna Godavari	KG-PA-3	2797.19	
4		Krishna Godavari	KG-PA-4	12610.14	Ultra-Deep Water
5		Krishna Godavari	KG-PA-5	9337.36	
6	Category-II	Mahanadi	MN-PA-6	5520.09	Ultra-Deep Water
7		Mahanadi	MN-PA-7	7169.14	
8		Mahanadi	MN-PA-8	10657.2	
9		Mahanadi	MN-PA-9	14157.23	
10		Andaman	AN-PA-10	15744.97	
11		Andaman	AN-PA-11	14928.09	
12		Andaman	AN-PA-12	12531.53	
13		Andaman	AN-PA-13	9894.62	
14		Gujarat Saurashtra	GS-PA-14	7381.27	Shallow Water
15		Gujarat Saurashtra	GS-PA-15	3050.87	
16		Gujarat Saurashtra	GS-PA-16	7838.3	
17	Category-III	Bengal Purnia	BP-PA-17	7626.47	
18		Bengal Purnia	BP-PA-18	12353.38	Ultra-Deep Water
Total Area (Sq Km)				181,170.7	

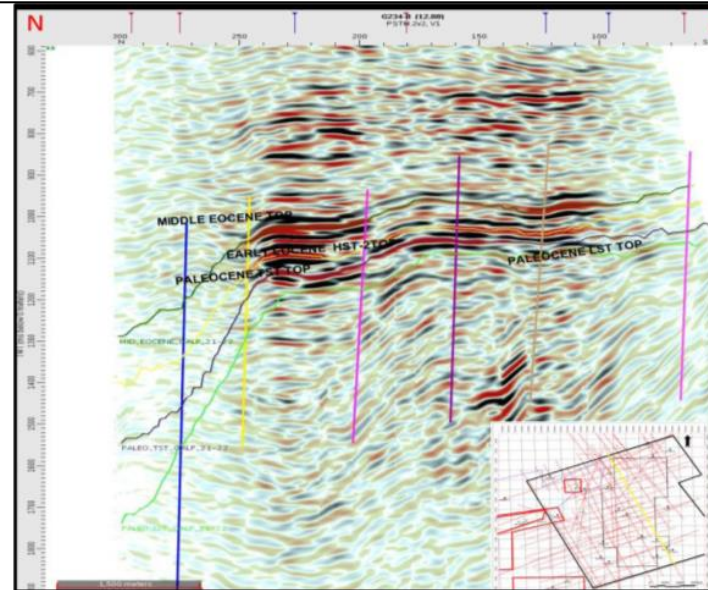
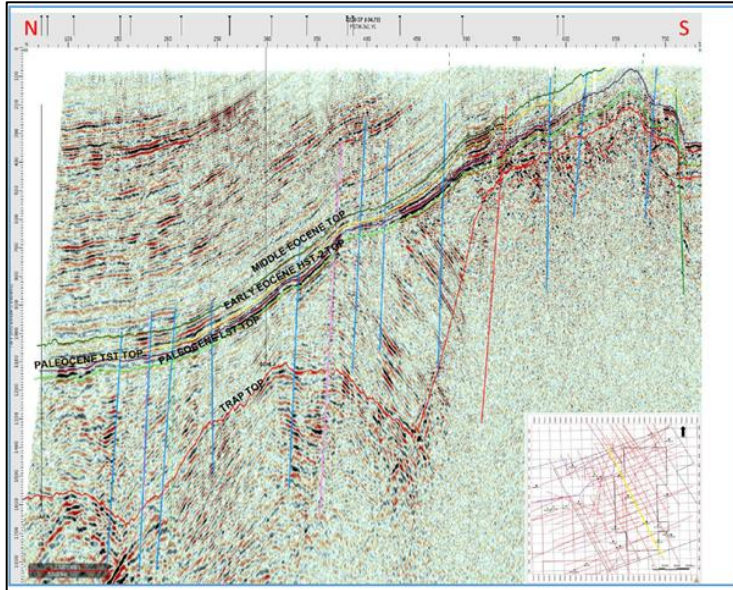


**Blocks/ Prospective Areas
in
Category – I Basins**

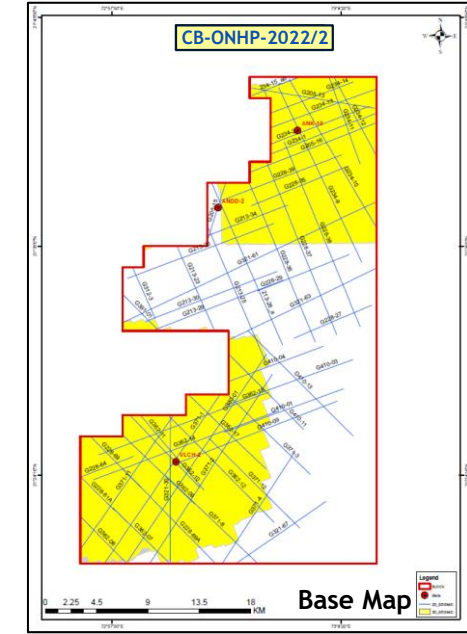
Cambay Basin

Block Name: CB-ONHP-2022/2

Block Area: 714 SQ KM



Representative Seismic Section



Data Availability

2D (LKM)	3D (SKM)	Exp. Well
641	418	3

Target plays: Middle Eocene along with Paleocene LST and Early Eocene

Petroleum System:

Source rock:- Cambay Shale, shale of the Ankleshwar/ Kalol Formation and Tarapur Shale

Reservoir:- Olpad Formation and Sandstone of Middle/Late Eocene

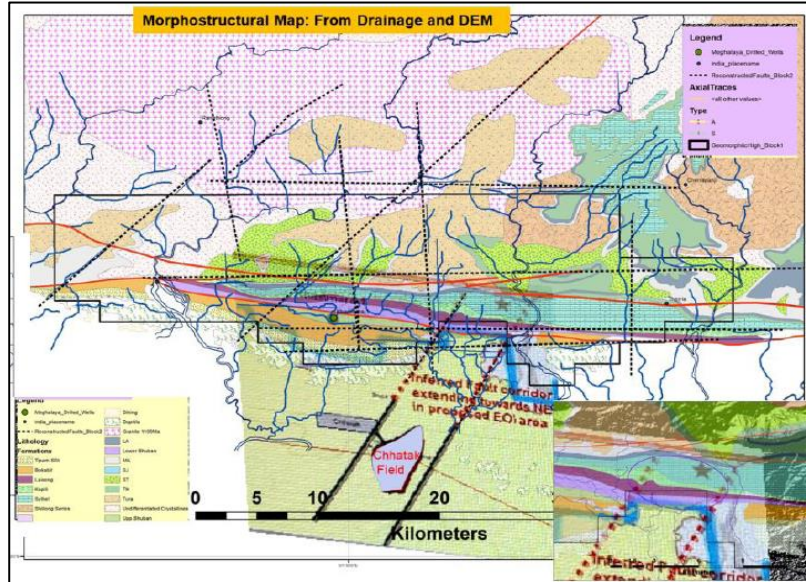
Entrapment mechanism:- Structural and Stratigraphic Traps

Envisaged Petroleum system: Paleocene, Early Eocene and Middle Eocene- Paleocene, Early Eocene and Middle Eocene

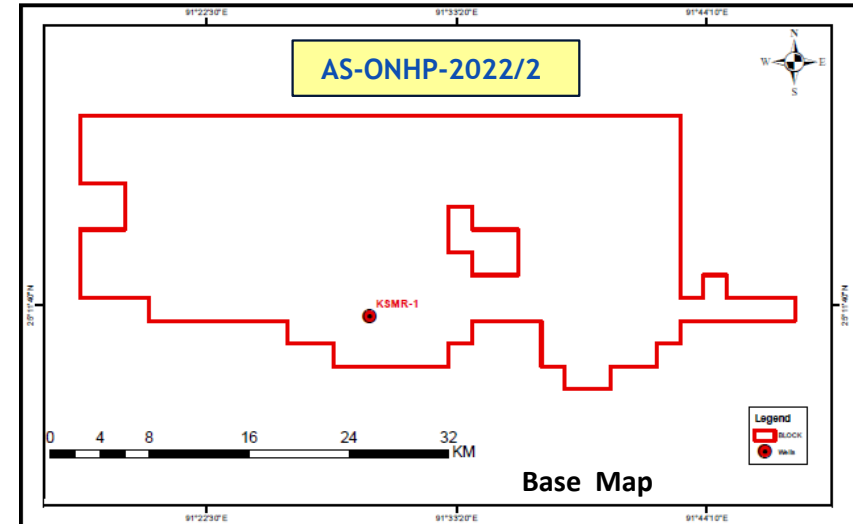
Assam Shelf Basin

Block Name: AS-ONHP-2022/2

Block Area: 784 SQ KM



Conceptual model for the area



Data Availability

2D (LKM)	3D (SKM)	Exp. Well
0	0	1

Target plays: Paleocene & Oligo-Miocene sequences

Petroleum System:

Source rock:- Kopili, Sylhet and Tura formations

Reservoir:- The sandstone reservoirs within Tura, Sylhet, Kopili, Barail and Bhuban formations are probably sheet to discrete lenticular bodies

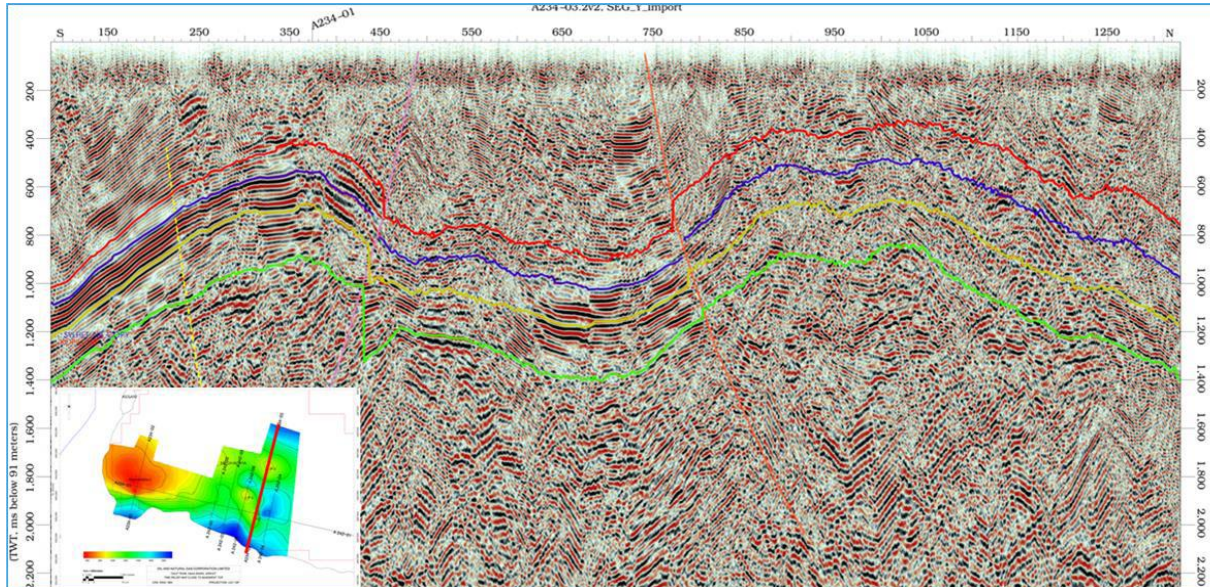
Entrapment mechanism:- Structural trap

Envisaged Petroleum system: Petroleum system envisaged are (i) Paleocene- Eocene: Tura- Sylhet- Kopili (ii) Oligo-Miocene Play: Barail- Bhuban play

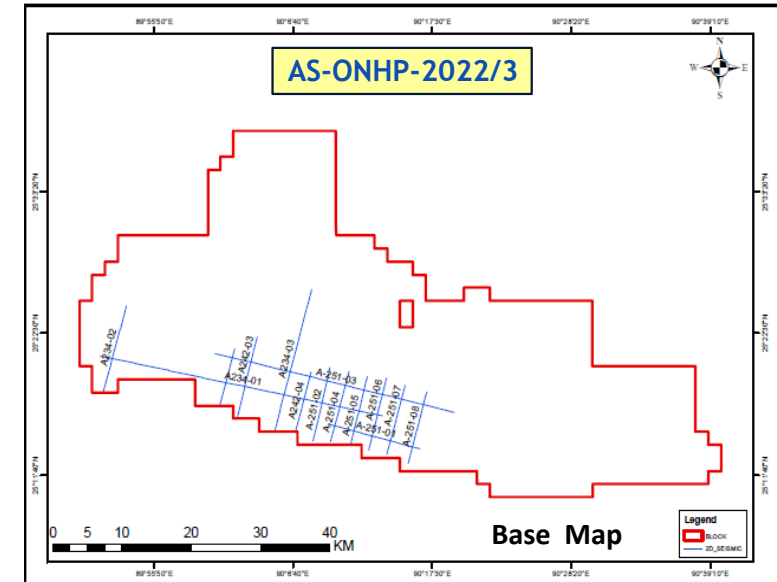
Assam Shelf Basin

Block Name: AS-ONHP-2022/3

Block Area: 2,168 SQ KM



Representative Seismic Section



Data Availability

2D (LKM)	3D (SKM)	Exp. Well
206	0	0

Target plays: Paleocene & Oligo-Miocene sequences

Petroleum System:

Source rock:- Kopili, Sylhet and Tura formations

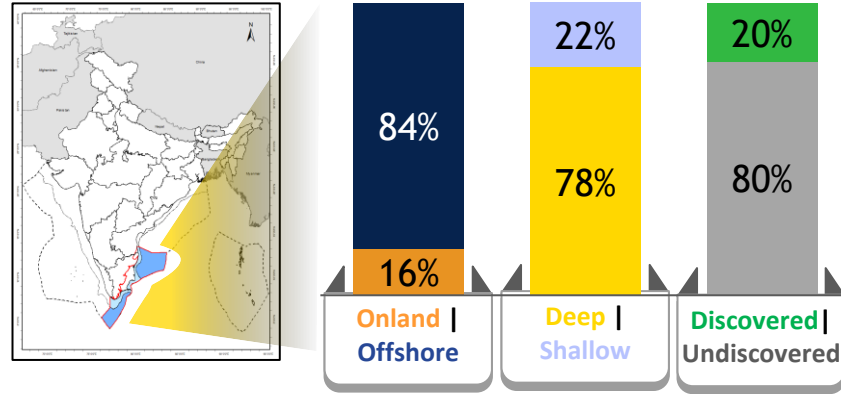
Reservoir:- The sandstone reservoirs within Tura, Sylhet, Kopili, Barail and Bhuban formations are probably sheet to discrete lenticular bodies

Entrapment mechanism:- Structural trap

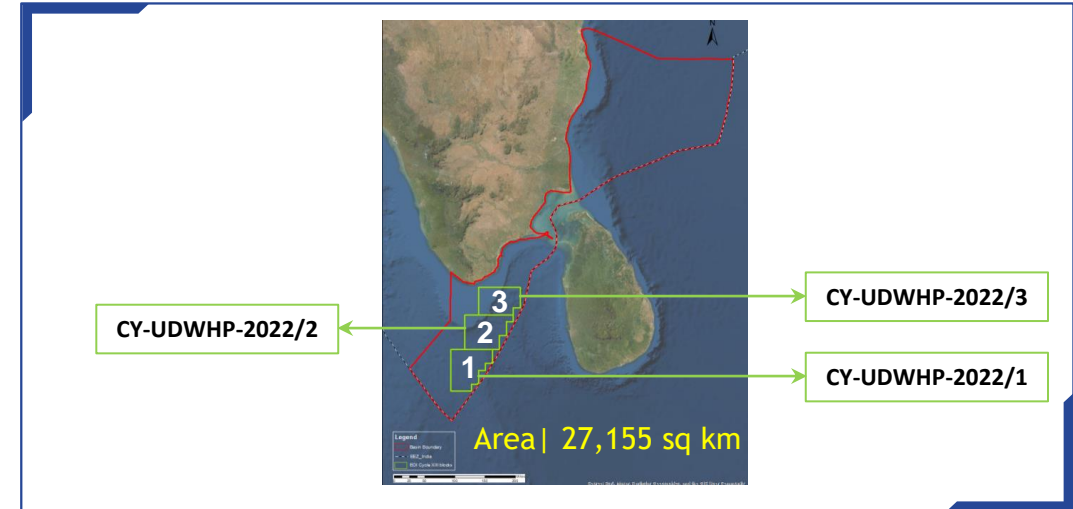
Envisaged Petroleum system: Petroleum system envisaged are (i) Paleocene- Eocene: Tura- Sylhet- Kopili (ii) Oligo-Mio Play: Barail- Bhuban play

Cauvery Basin

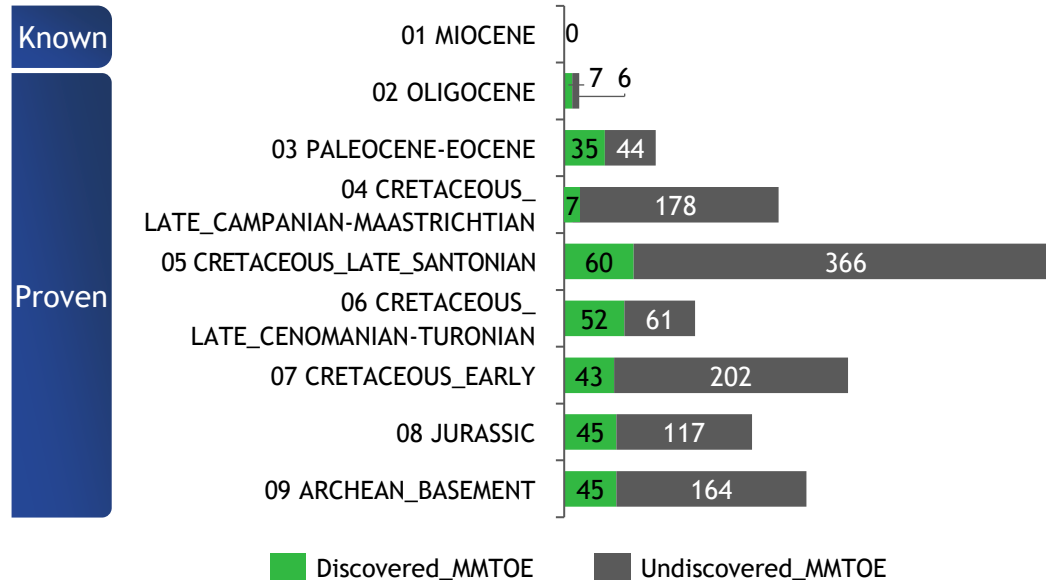
Proven resources in Mesozoic and Basement



3 Blocks on offer



Basin's risked resource potential - 1,139 MMTOE



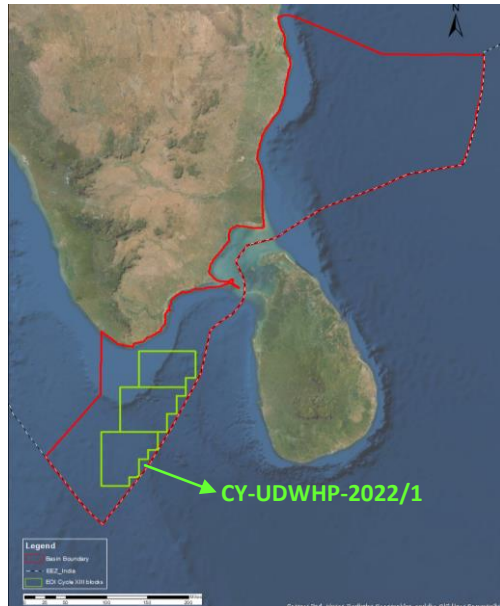
Key characteristics

- Basin with significant production from **Mesozoic** and **Basement**
- Deep-to-Ultradeep water** largely appraised but less explored
- Opportunity to explore **Ultradeep** in the **north-east** and southern part towards **Gulf of Mannar**

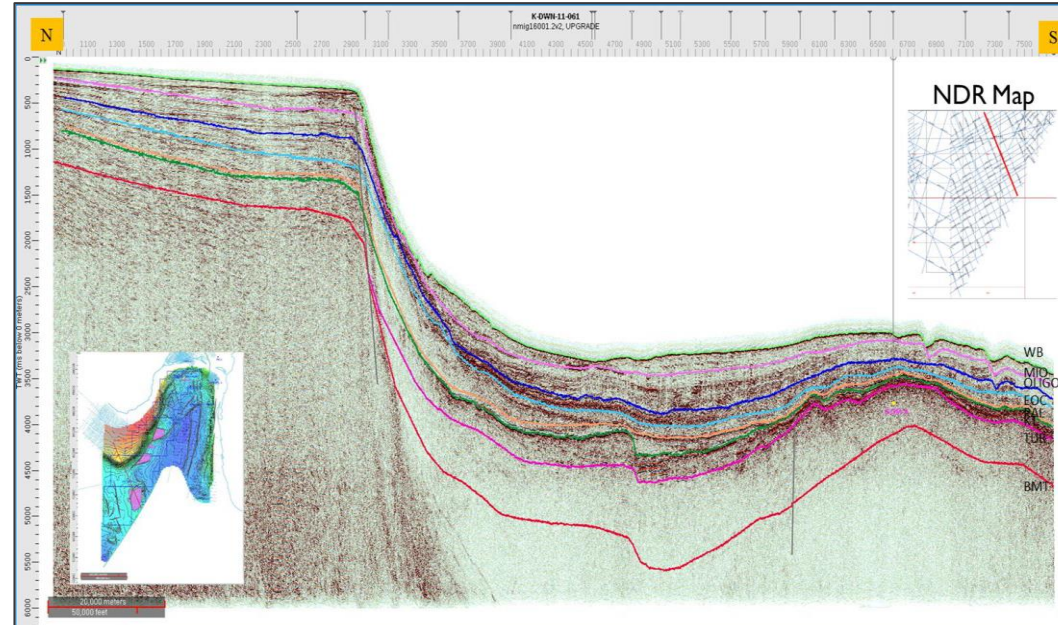
Cauvery Basin

Block Name: CY-UDWHP-2022/1

Block Area: 9,515 SQ KM



Location Map

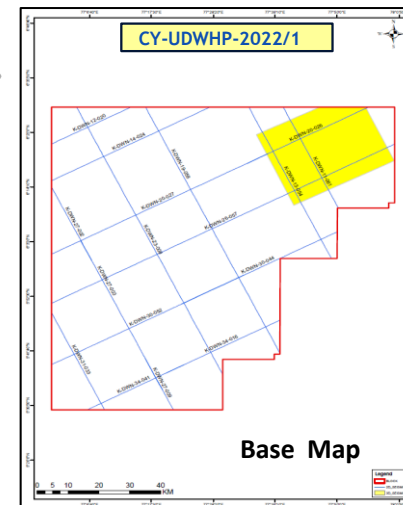


Representative Seismic Section

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
1002	988	Nil

Target plays: Paleocene, Cretaceous & Basement/
Technical basement



Petroleum System:

Source rock: Late Jurassic to Early Cretaceous sequences

Reservoir: Late synrift sequences, Lowstand sequences during Turonian, Late Coniacian-Santonian, Late Maastrichtian and Late Paleocene would result in the deposition of clastic reservoir facies in the Sub-Basin in the form of slope fans & basin floor fans.

Entrapment Mechanism: Fault closure, stratigraphic drape over structural highs, pinch-out traps and channel fills.

Envisaged plays: Basement, Cretaceous & Older and Tertiary play.

Thermogenic Petroleum System:

1. Middle Jurassic – Jurassic, Early Cretaceous, Late Cretaceous (?)
2. Early Cretaceous – Early Cretaceous, Late Cretaceous (?)
3. Late Cretaceous – Late Cretaceous (?)

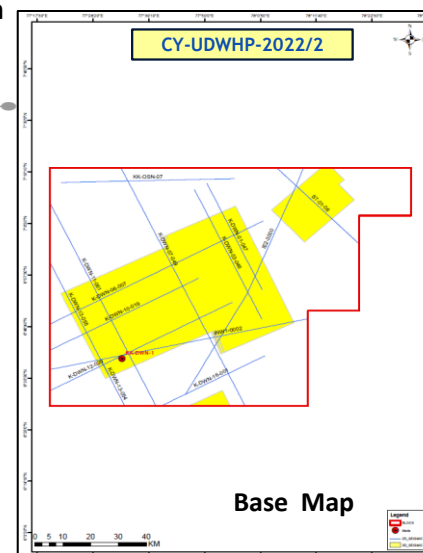
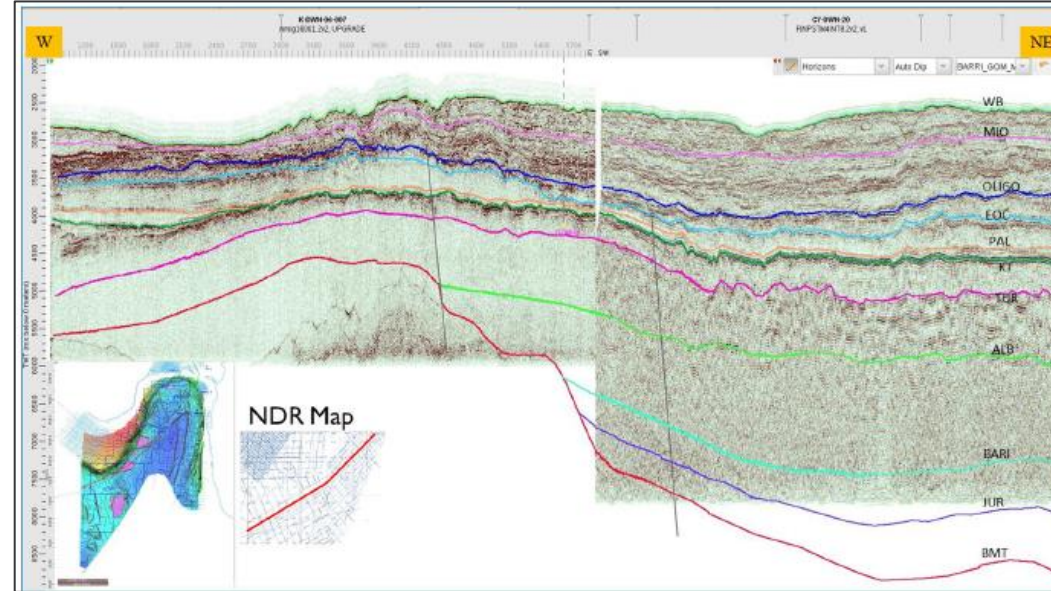
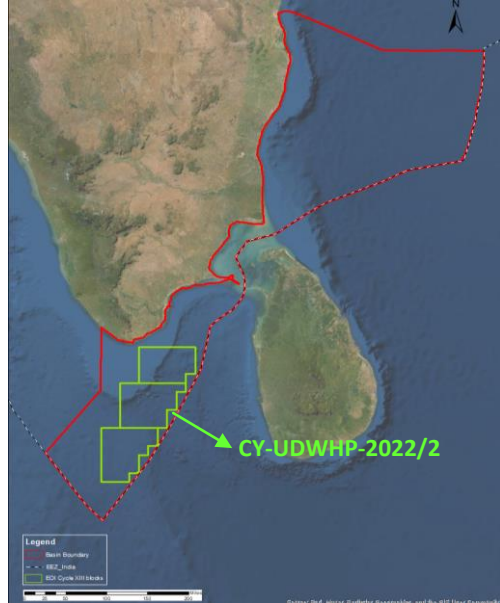
Biogenic Petroleum System:

1. Oligocene – Oligocene (?)

Cauvery Basin

Block Name: CY-UDWHP-2022/2

Block Area: 9,845 SQ KM



Data Availability

2D (LKM)	3D (SKM)	Exp. Well
892	2811	1

Target plays: Paleocene, Cretaceous & Basement/
Technical basement

Petroleum System:

Source rock: Late Jurassic to Early Cretaceous sequences

Reservoir: Late synrift sequences, Lowstand sequences during Turonian, Late Coniacian-Santonian, Late Maastrichtian and Late Paleocene would result in the deposition of clastic reservoir facies in the Sub-Basin in the form of slope fans & basin floor fans.

Entrapment Mechanism: Fault closure, stratigraphic drape over structural highs, pinch-out traps and channel fills.

Envisaged plays: Basement, Cretaceous & Older and Tertiary play.

Thermogenic Petroleum System:

1. Middle Jurassic – Jurassic, Early Cretaceous, Late Cretaceous (?)
2. Early Cretaceous – Early Cretaceous, Late Cretaceous (?)
3. Late Cretaceous – Late Cretaceous (?)

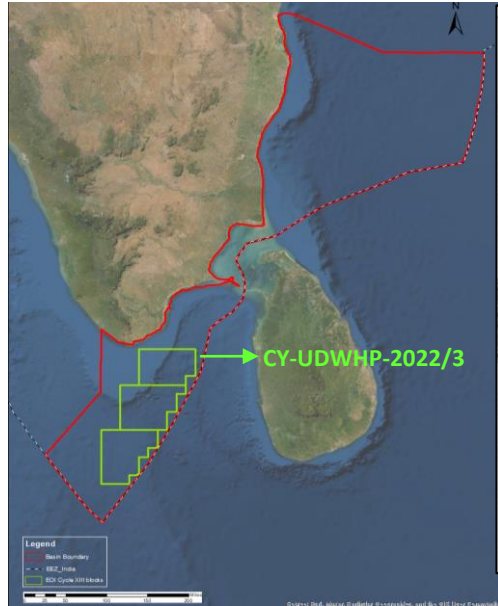
Biogenic Petroleum System:

1. Oligocene – Oligocene (?)

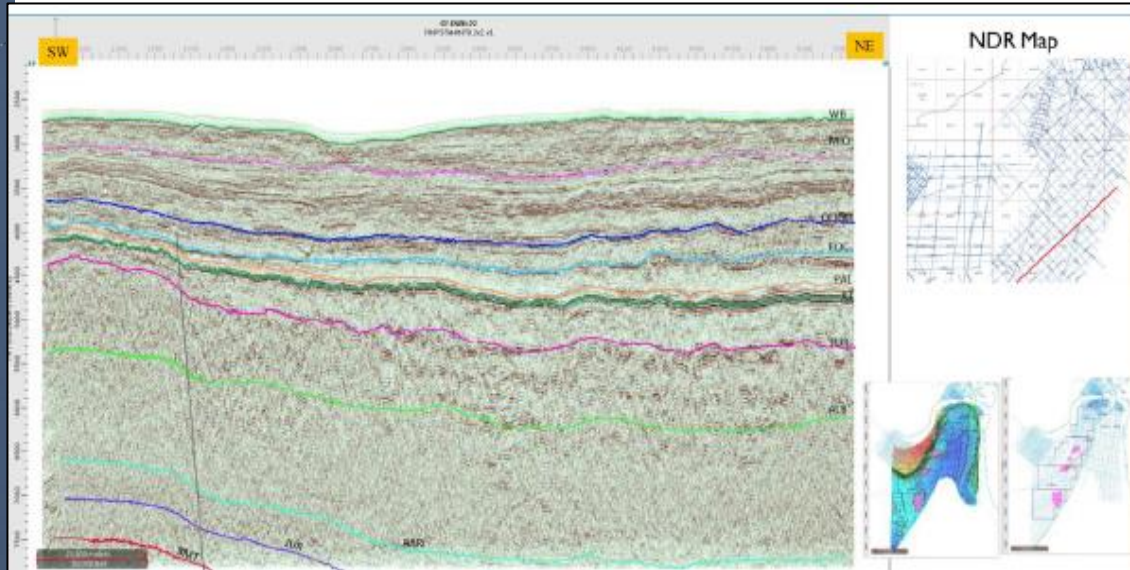
Cauvery Basin

Block Name: CY-UDWHP-2022/3

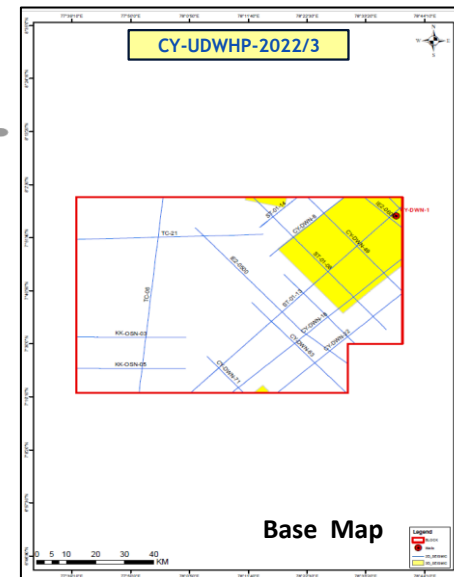
Block Area: 7,795 SQ KM



Location Map



Representative Seismic Section



Base Map

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
894	1444	1

Target plays: Eocene, Paleocene & Cretaceous

Petroleum System:

Source rock: Late Jurassic to Early Cretaceous sequences

Reservoir: Late synrift sequences, Lowstand sequences during Turonian, Late Coniacian-Santonian, Late Maastrichtian and Late Paleocene would result in the deposition of clastic reservoir facies in the Sub-Basin in the form of slope fans & basin floor fans.

Entrapment Mechanism: Fault closure, stratigraphic drape over structural highs, pinch-out traps and channel fills.

Envisaged plays: Basement, Cretaceous & Older and Tertiary play.

Thermogenic Petroleum System:

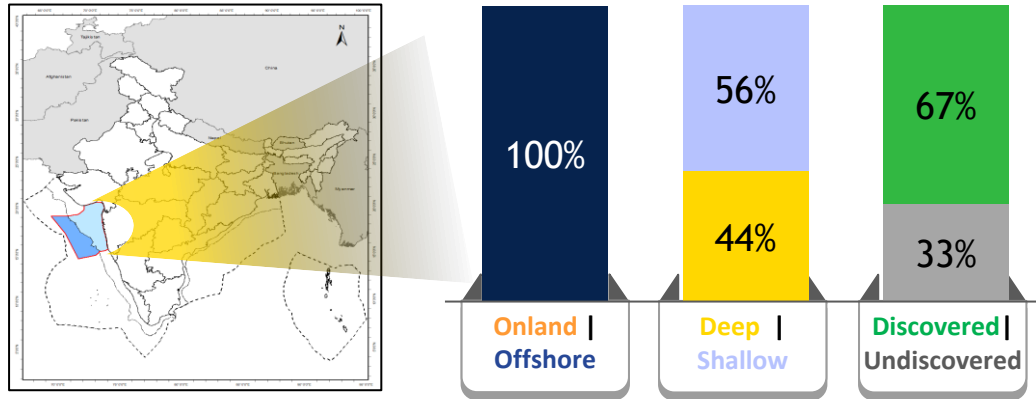
1. Middle Jurassic – Jurassic, Early Cretaceous, Late Cretaceous (?)
2. Early Cretaceous – Early Cretaceous, Late Cretaceous (?)
3. Late Cretaceous – Late Cretaceous (?)

Biogenic Petroleum System:

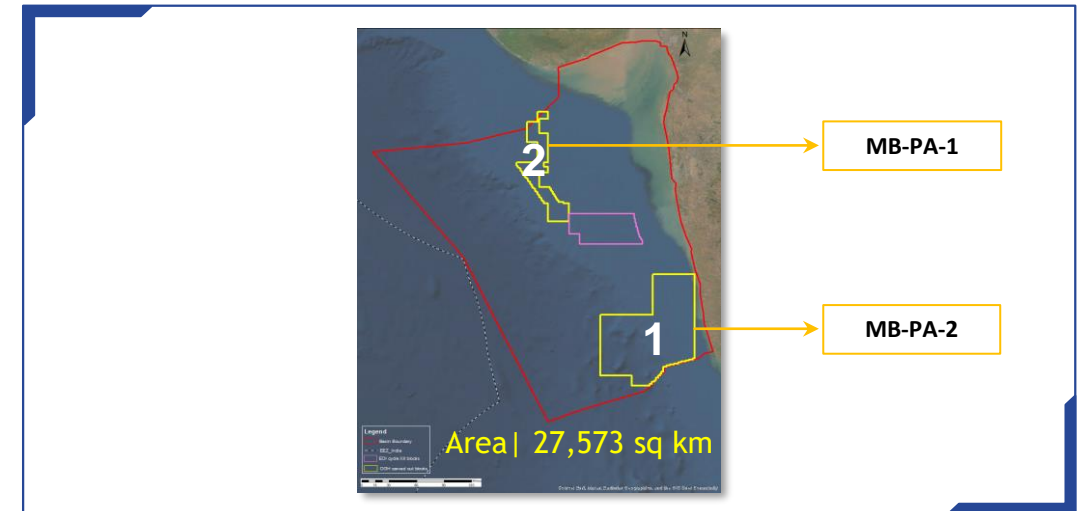
1. Oligocene – Oligocene (?)

Mumbai Basin

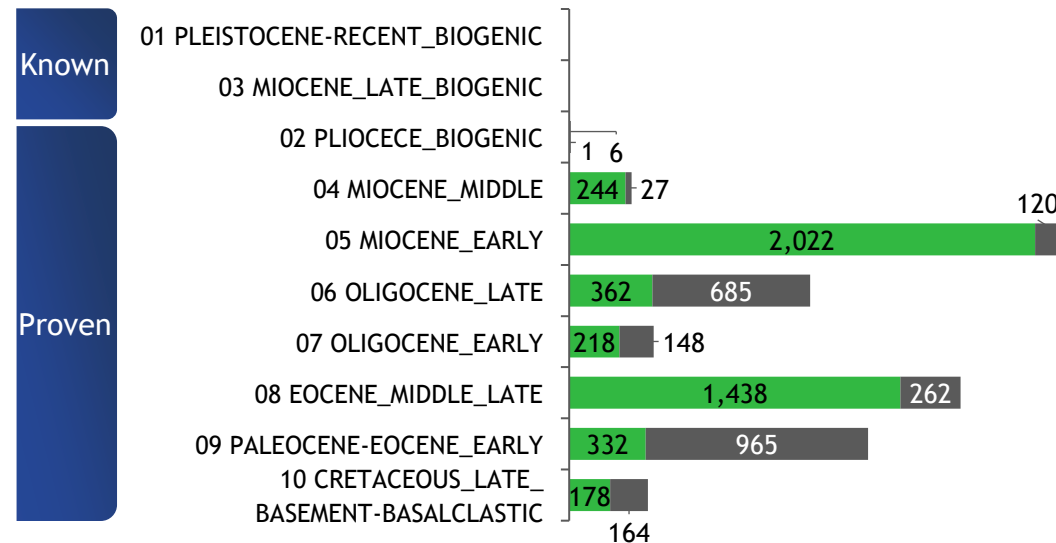
Mostly discovered, Mesozoic an opportunity



2 Prospective Areas Identified



Basin's risked resource potential - 2,377 MMTOE



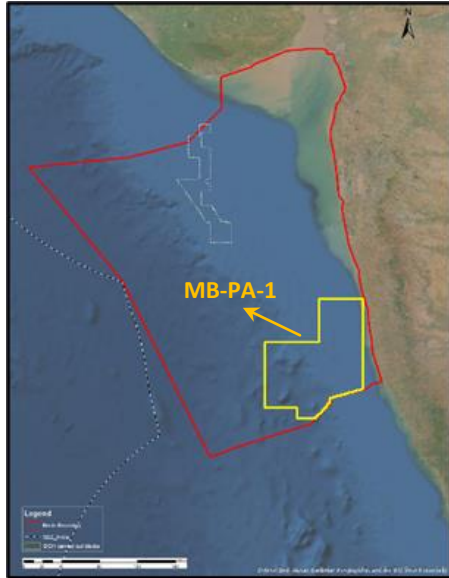
Key characteristics

- The basin has discovered resources of 4.8 BTOE, **producing half** of country's oil and gas
- Opportunity to chase prospective plays (**Paleocene and Eocene**) towards **deepwater**
- Opportunity to explore **Sub-basalt Mesozoic Play** at a deeper depth (3,000m+)

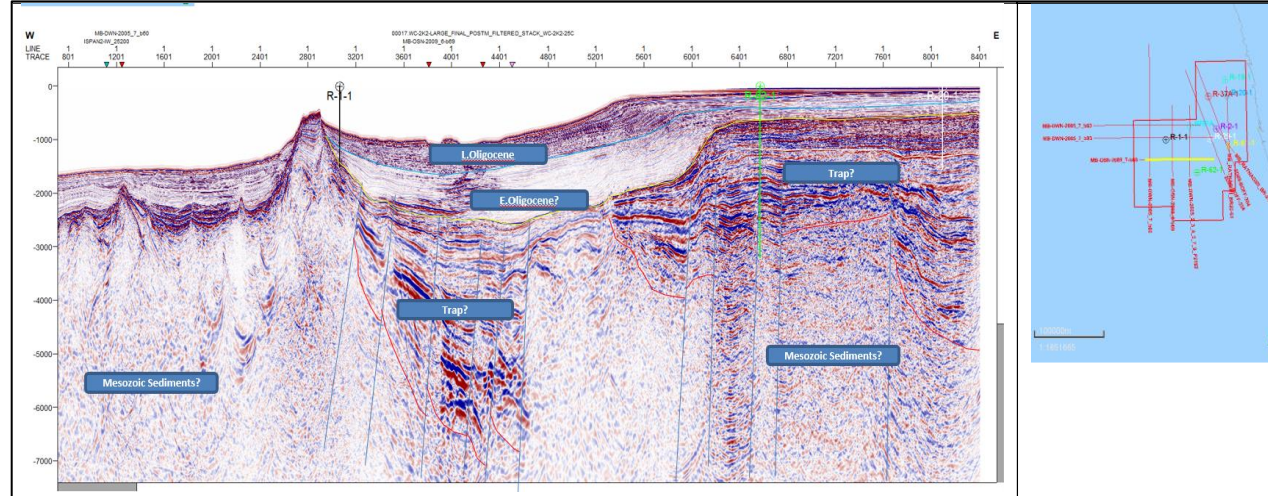
Mumbai Basin

Prospective Area Name: MB-PA-1

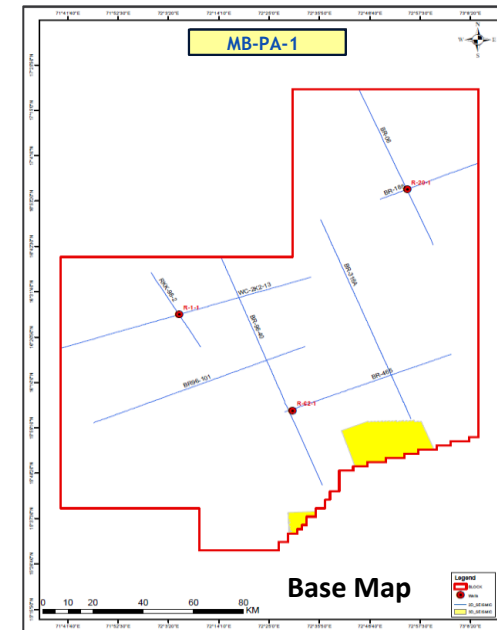
Area: 22,377 SQ KM



Location Map



Representative Seismic Section



Base Map

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
612	561	3

Prospective plays: To explore prospectivity of Cretaceous, additionally play of Late Miocene (Biogenic)

Petroleum System:

Source rock: Paleocene to Early Eocene

Reservoir: Panna Clastic (Paleocene), Devgarh Carbonate (Early Eocene), Bassein Limestone (Middle-to-Late Eocene), Mukta Limestone (Early Oligocene) and Miocene carbonates

Seal: Panna

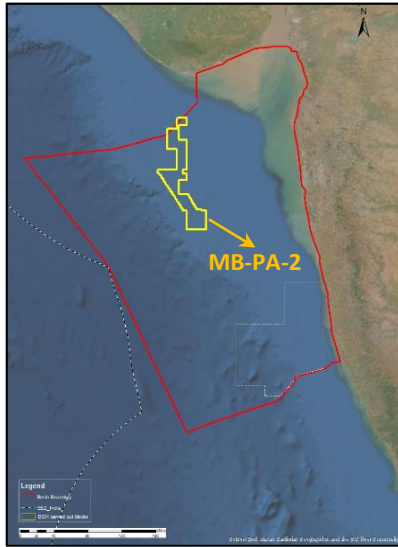
Entrapment mechanism: Structural (Fault-bound closures)

Envisaged play: Paleocene Clastic, Early Eocene Carbonate, Middle-Late Eocene Carbonate, Early Oligocene Carbonate and Miocene Carbonate

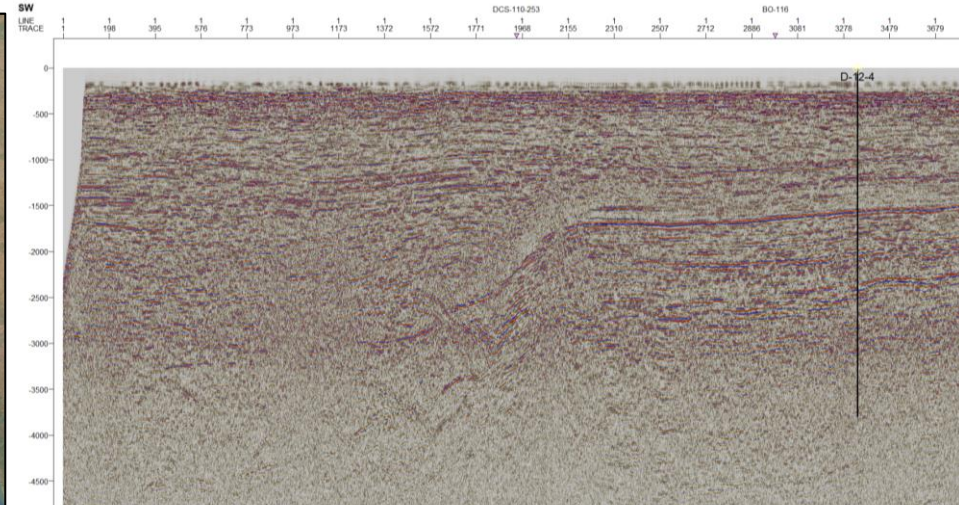
Mumbai Basin

Prospective Area Name: MB-PA-2

Area: 5,196 SQ KM



Location Map



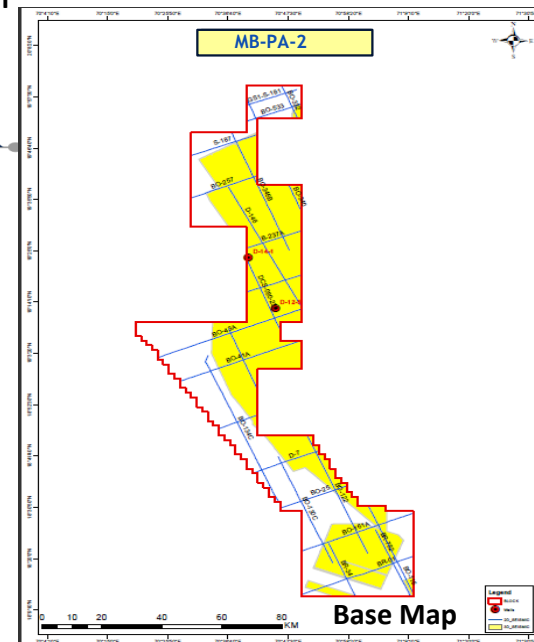
Representative Seismic Section



Data Availability

2D (LKM)	3D (SKM)	Exp. Well
770	2969	2

Prospective plays: To explore prospectivity of Early Miocene and Middle Miocene



Petroleum System:

Source rock: Paleocene to Early Eocene

Reservoir: Panna Clastic (Paleocene), Devgarh Carbonate (Early Eocene), Bassein Limestone (Middle-to-Late Eocene), Mukta Limestone (Early Oligocene) and Miocene carbonates

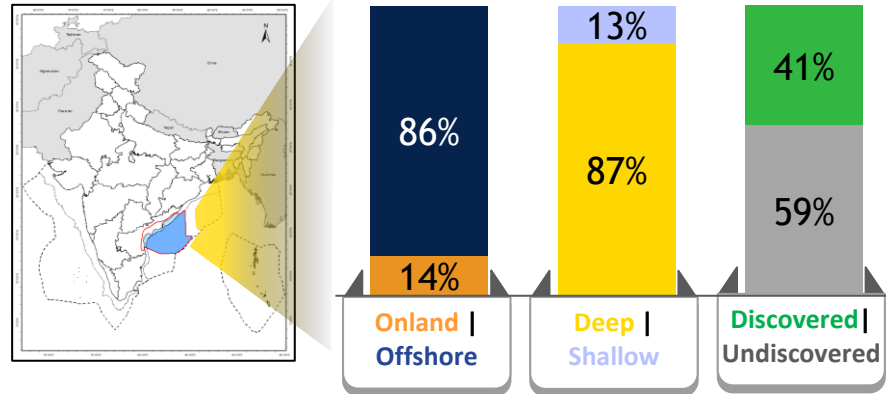
Seal: Panna

Entrapment mechanism: Structural (Fault-bound closures)

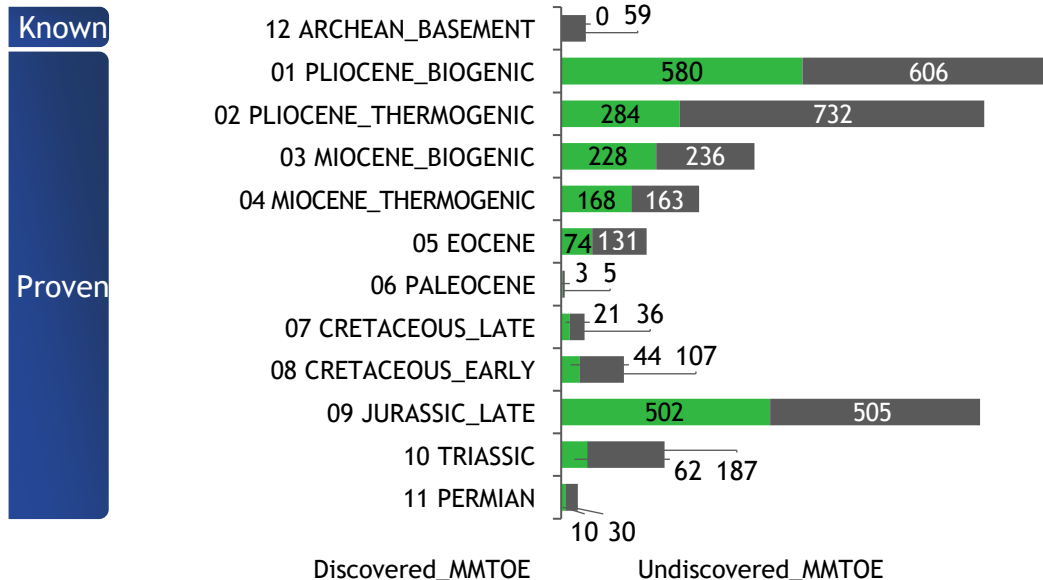
Envisaged play: Paleocene Clastic, Early Eocene Carbonate, Middle-Late Eocene Carbonate, Early Oligocene Carbonate and Miocene Carbonate

Krishna-Godavari Basin

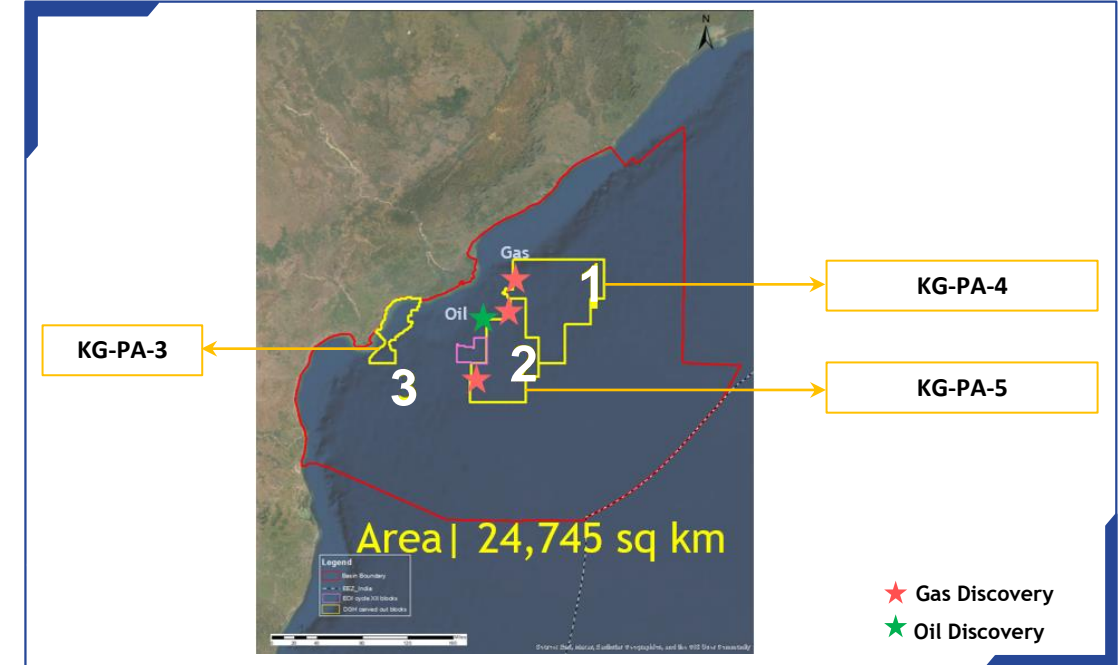
Most prospective, largely proven



Basin's risked resource potential - 2,796 MMTOE



3 Prospective Areas Identified



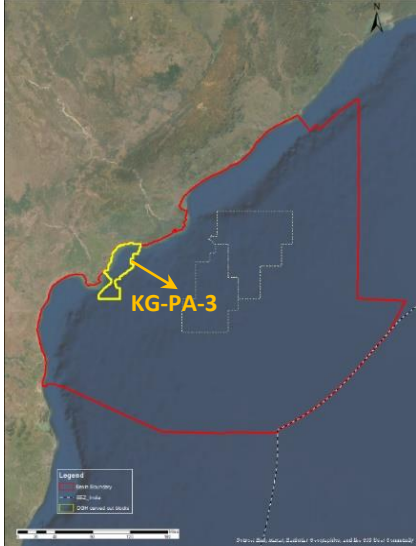
Key characteristics

- Maximum resources, known for **country's largest deepwater biogenic gas field**
- With **2.0 BTOE** resource established, proven plays have significant prospective resources
- Deep/shallow water extensively appraised with **large-scale datasets**, an opportunity for intensive exploration of **channelized deposits**

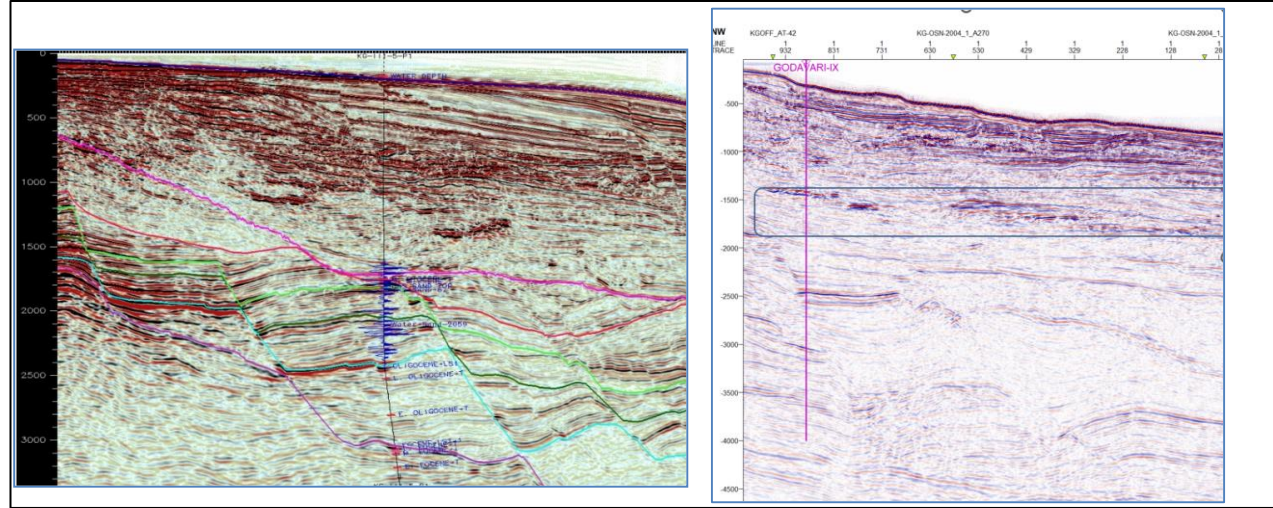
Krishna-Godavari Basin

Prospective Area Name: KG-PA-3

Area: 2,797 SQ KM



Location Map

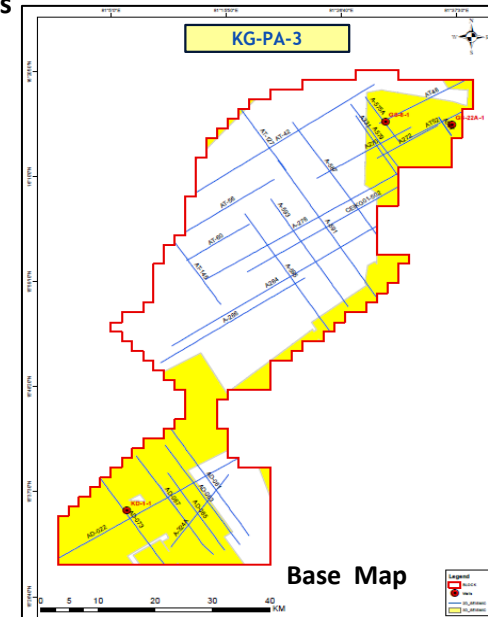


Representative Seismic Sections

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
602	1066	3

Prospective plays: To explore prospectivity in Miocene and Pliocene plays of offshore bars, channel and slope fans.



Petroleum System:

Source rock: Mesozoic/Eocene-Oligocene (Thermogenic), Mio-Pleistocene (Biogenic)

Reservoir: Mio-Pliocene and Pleistocene

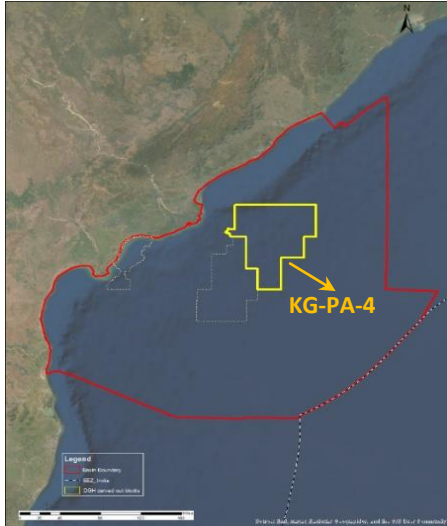
Entrapment Mechanism: Stratigraphic and Strati-structural

Envisaged plays: Pleistocene deepwater channel-lobe complexes, Pliocene deepwater channel complexes abutting against frontal thrust, Late Miocene channelized lobes on the slope created by the frontal thrust.

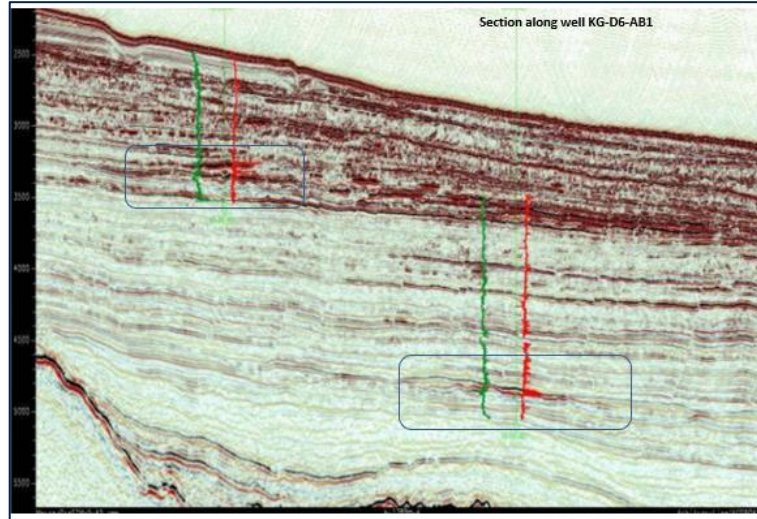
Krishna-Godavari Basin

Prospective Area Name: KG-PA-4

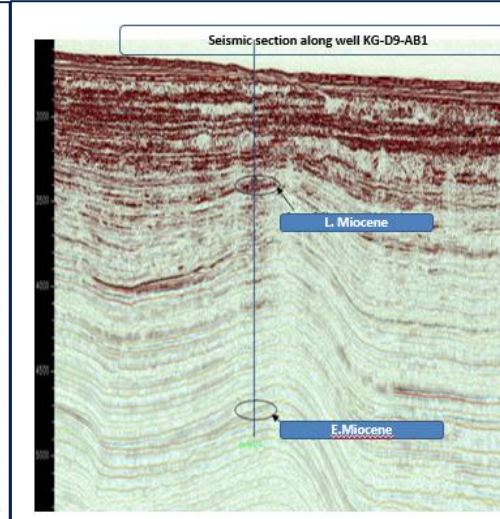
Area: 12,610 SQ KM



Location Map



Representative Seismic Sections



Petroleum System:

Source rock: Mesozoic/Eocene-Oligocene (Thermogenic), Mio-Pleistocene (Biogenic)

Reservoir: Mio-Pliocene and Pleistocene

Entrapment Mechanism:

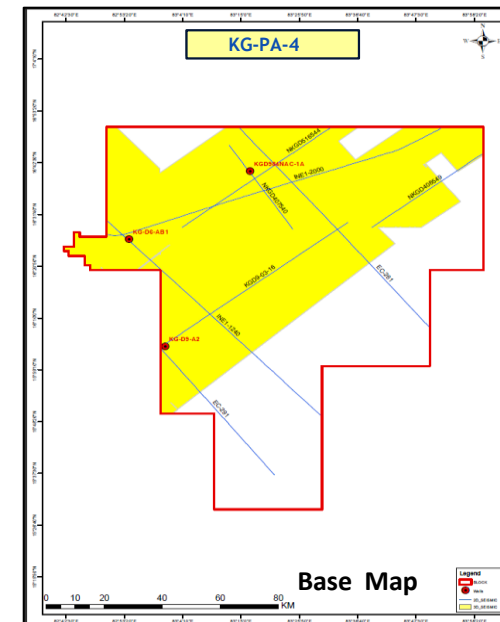
Stratigraphic and Strati-structural

Envisaged plays: Pleistocene Deepwater channel-lobe complexes, Pliocene Deepwater channel complexes abutting against frontal thrust, Late Miocene channelized lobes on the slope created by the frontal thrust.

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
615	7567	3

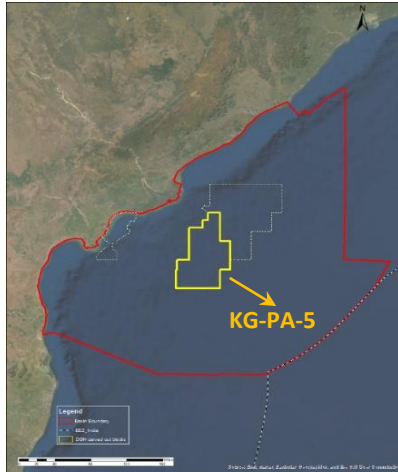
Prospective plays: To explore prospectivity in Pliocene Deepwater channel complexes abutting against frontal thrust, Late Miocene channelized lobes on the slope created by the frontal thrust, Pleistocene Deepwater channel-lobe complexes.



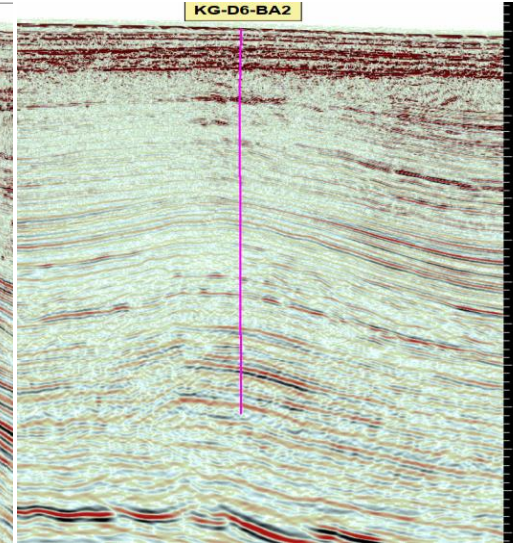
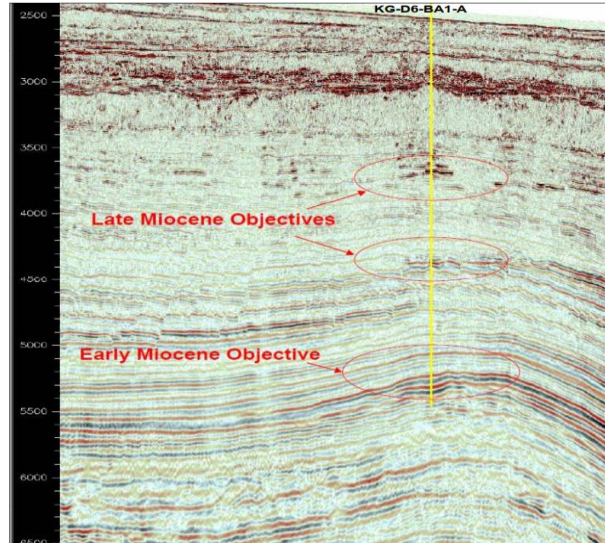
Krishna-Godavari Basin

Prospective Area Name: KG-PA-5

Area: 9,337 SQ KM



Location Map



Representative Seismic Sections

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
782	9370	2

Prospective plays: To explore prospectivity in Pliocene deepwater channel complexes abutting against frontal thrust, Late Miocene channelized lobes on the slope created by the frontal thrust, Pleistocene deepwater channel-lobe complexes.

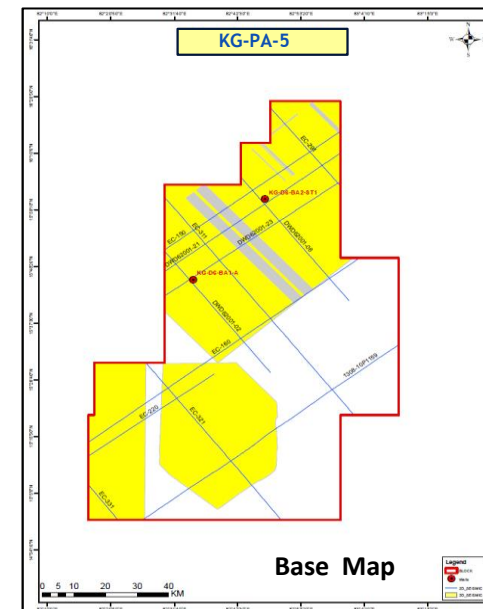
Petroleum System:

Source rock: Mesozoic/Eocene-Oligocene (Thermogenic), Mio-Pleistocene (Biogenic)

Reservoir: Mio-Pliocene and Pleistocene

Entrapment Mechanism: Stratigraphic and Strati-structural

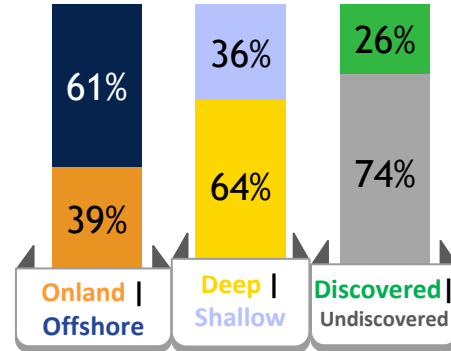
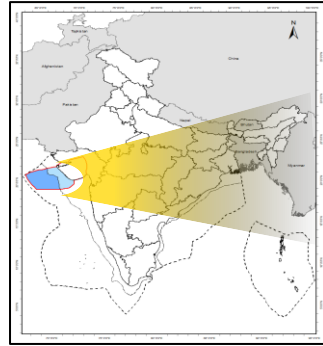
Envisaged plays: Pleistocene deepwater channel-lobe complexes, Pliocene deepwater channel complexes abutting against frontal thrust, Late Miocene channelized lobes on the slope created by the frontal thrust.



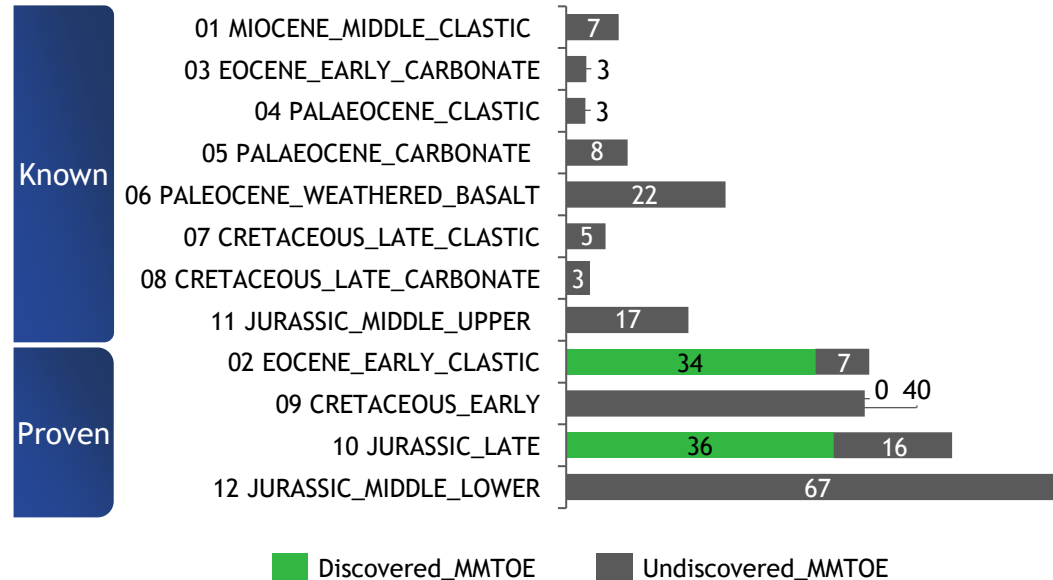
**Blocks/ Prospective Areas
in
Category – II Basins**

Saurashtra Basin

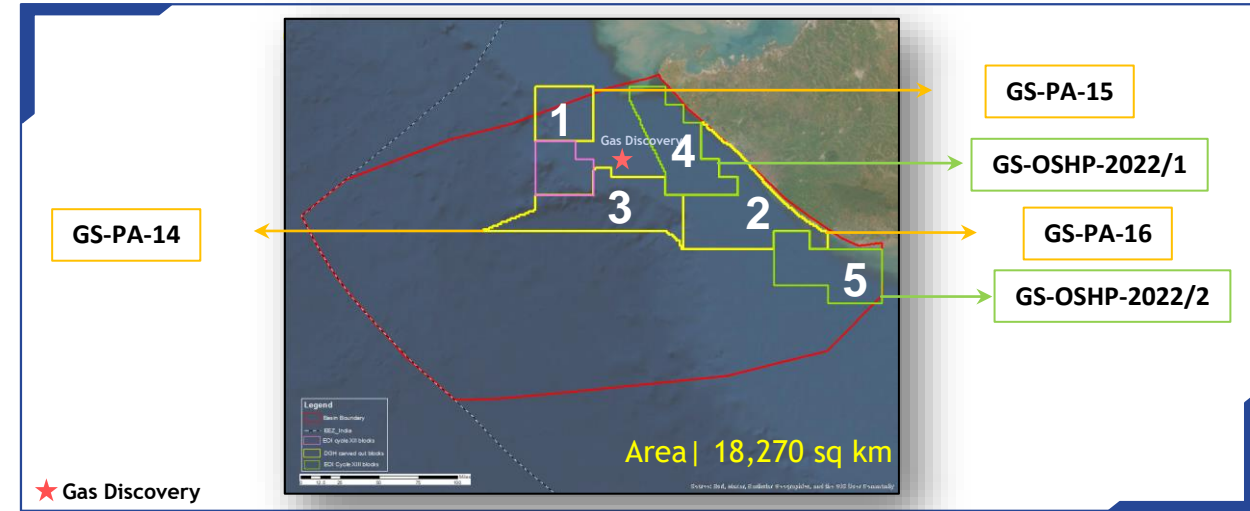
Significant sub-basalt Mesozoic discovery



Basin's risked resource potential - 198 MMTOE



2 Blocks on offer & 3 Prospective Areas Identified



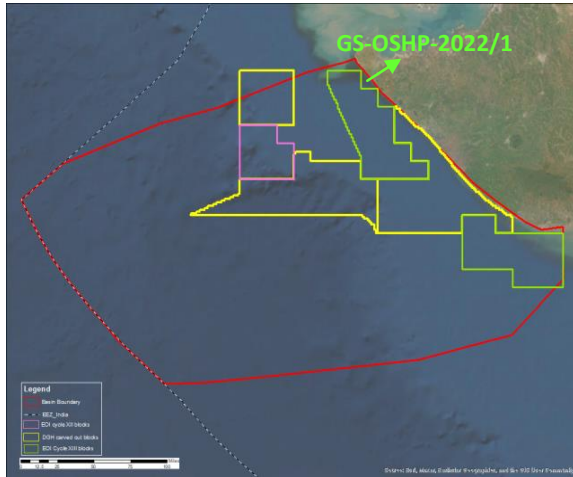
Key characteristics

- Presence of prospective plays of **Middle Jurassic to Early Cretaceous**
- A significant gas discovery in **Early Cretaceous** reservoirs at 4,500m depth, below **2,500m thick weathered basalt**
- Extended proven **Tertiary Plays** of Kutch basin are potential target

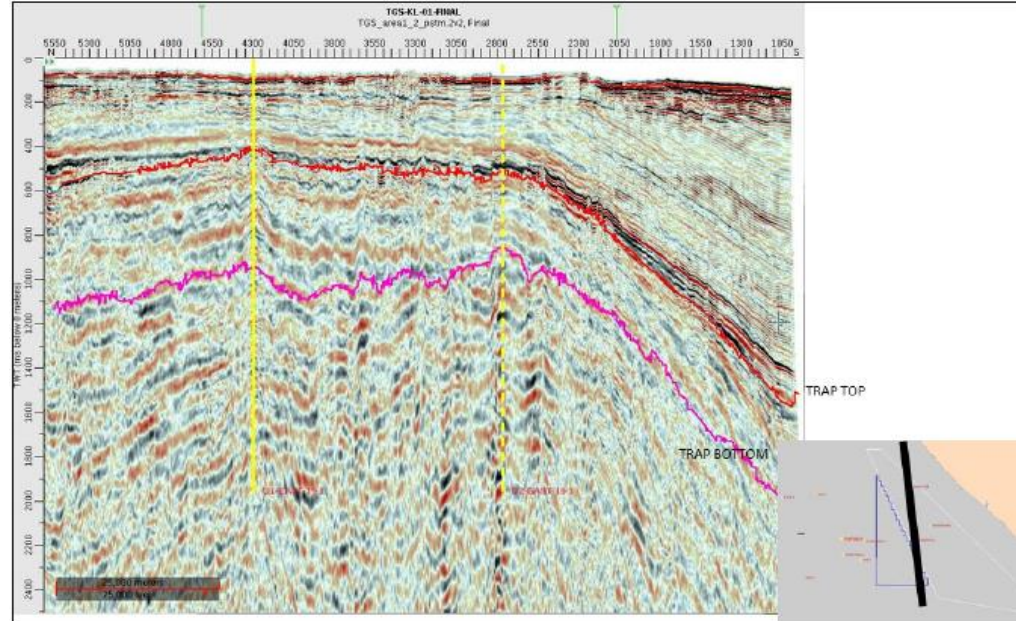
Saurashtra Basin

Block Name: GS-OSHP-2022/1

Block Area: 5,586 SQ KM



Location Map

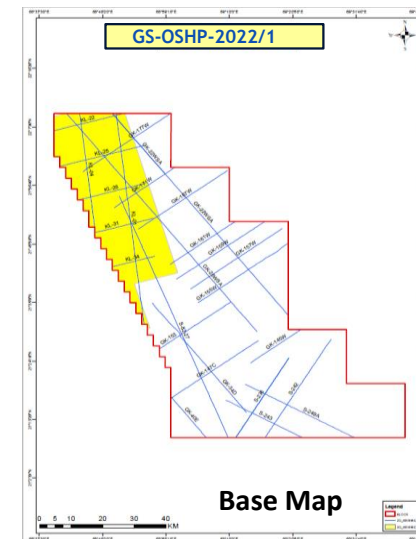


Representative Seismic Section

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
1030	1369	Nil

Target plays: Clastic Mesozoic sediments capped by Deccan basalt.



Base Map

Petroleum System:

Source rock: Mesozoic

Reservoir: Late Jurassic, Cretaceous, Eocene-Early Miocene, Fractured Basalt

Seal: Basalt/Shale

Entrapment Mechanism: Strati-Structural & Structural

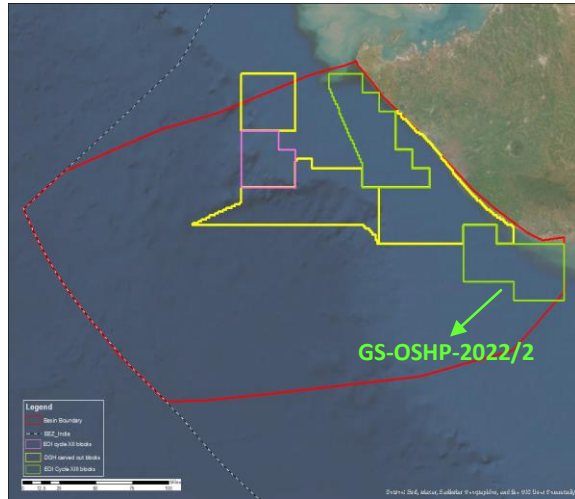
Envisaged plays: Jurassic, Cretaceous Plays dominantly strati-structural as wedge out against Trap bottom is present in drilled well.

Envisaged Petroleum system: Petroleum system envisaged is Jurassic-Jurassic, Jurassic-Cretaceous, Cretaceous-Cretaceous.

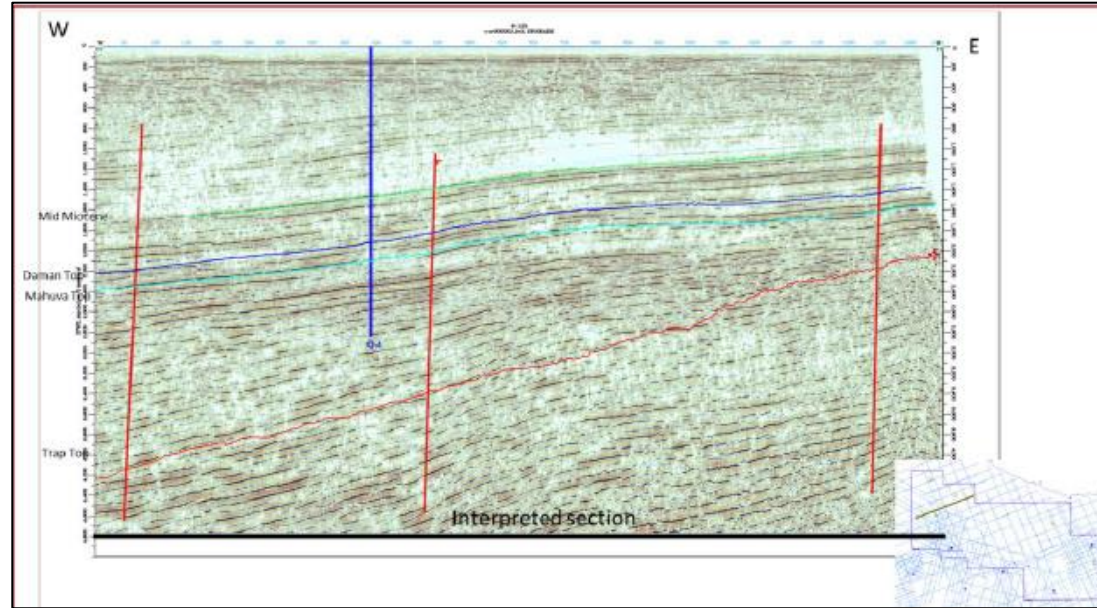
Saurashtra Basin

Block Name: GS-OSHP-2022/2

Block Area: 5,454 SQ KM



Location Map



Representative Seismic Section

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
912	56	2

Target plays: Early Miocene carbonates, Late Oligocene carbonates.

Petroleum System:

Source rock: Palaeogene shales of syn-rift stage deposited in the paleo-lows

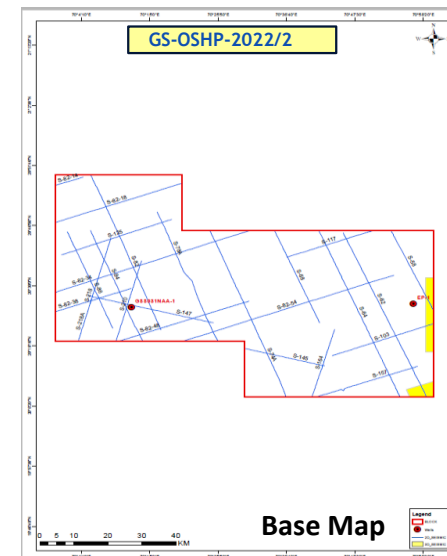
Reservoir: Oligocene- Miocene section in form of limestones

Seal: Basalt/Shale

Entrapment Mechanism: Structural

Envisaged plays: Early Miocene carbonates, Late Oligocene carbonates

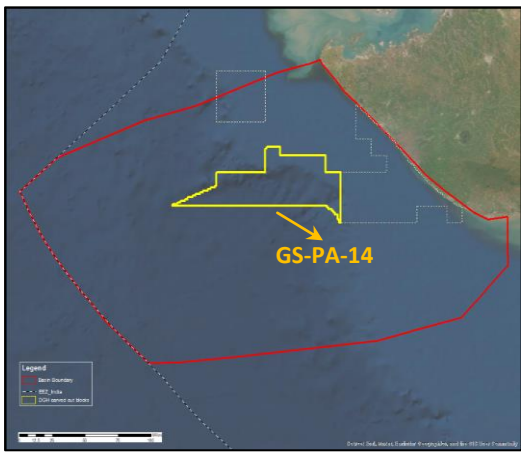
Envisaged Petroleum system: Eocene-Oligocene-Miocene carbonate Play



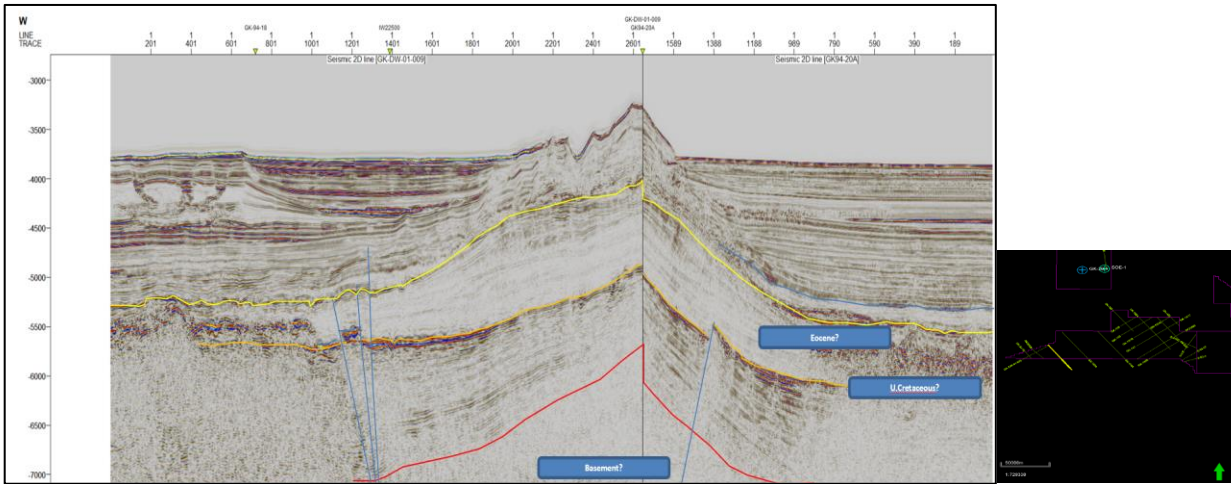
Saurashtra Basin

Prospective Area Name: GS-PA-14

Area: 7,381 SQ KM



Location Map

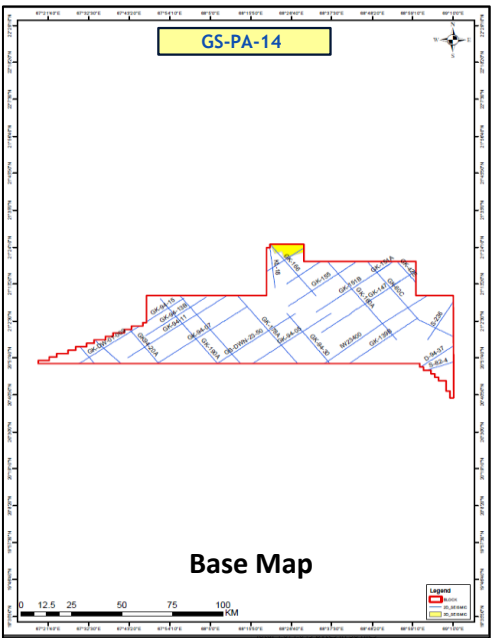


Representative Seismic Section

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
1048	61	Nil

Prospective plays: Prominent play is middle Jurassic with additional targets in Early Cretaceous



Base Map

Petroleum System:

Source rock: Mesozoic

Reservoir: Late Jurassic, Cretaceous, Eocene-Early Miocene, Fractured Basalt

Seal: Basalt/Shale

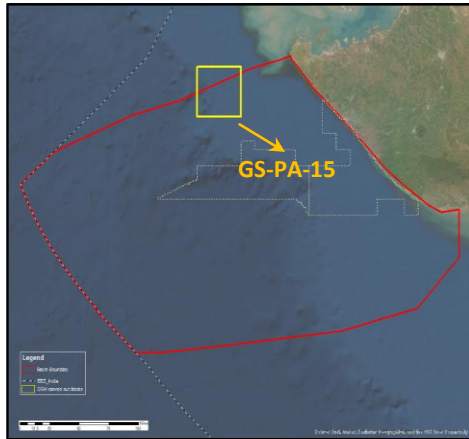
Entrapment Mechanism: Strati-Structural & Structural

Envisaged plays: Jurassic, Cretaceous Plays

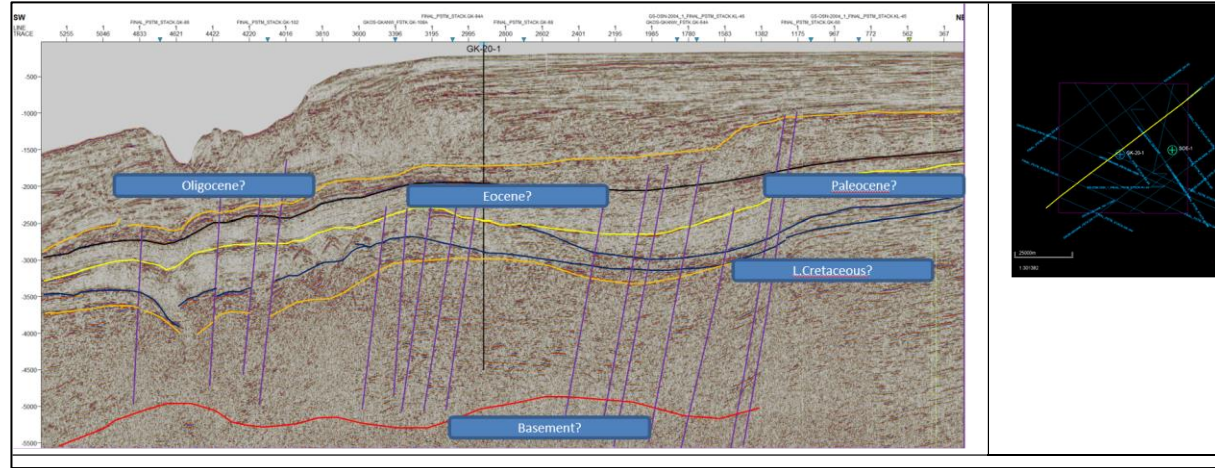
Saurashtra Basin

Prospective Area Name: GS-PA-15

Area: 3,051 SQ KM



Location Map

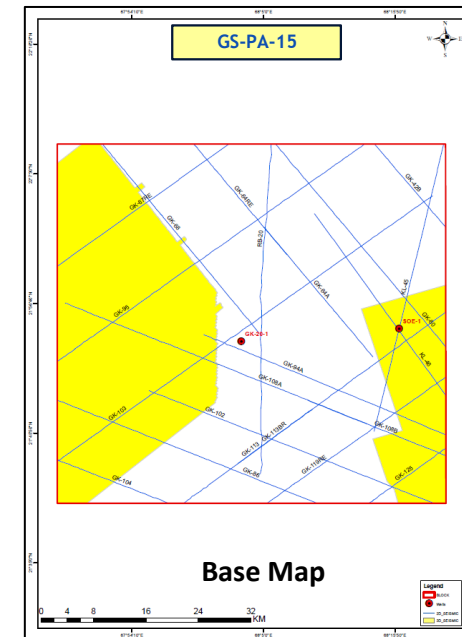


Representative Seismic Section

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
748	1190	2

Prospective plays: To probe prospectivity in Middle Jurassic with Early Cretaceous.



Base Map

Petroleum System:

Source rock: Mesozoic

Reservoir: Late Jurassic, Cretaceous, Eocene-Early Miocene, Fractured Basalt

Seal: Basalt/Shale

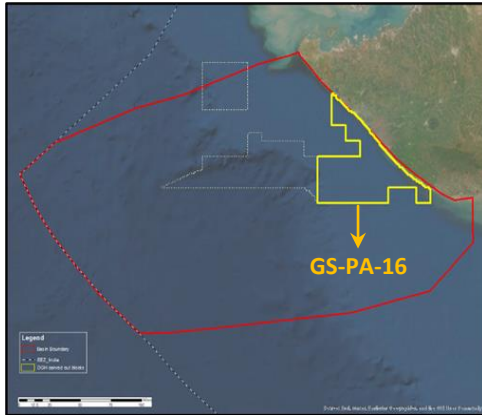
Entrapment Mechanism: Strati-Structural & Structural

Envisaged plays: Jurassic, Cretaceous Plays

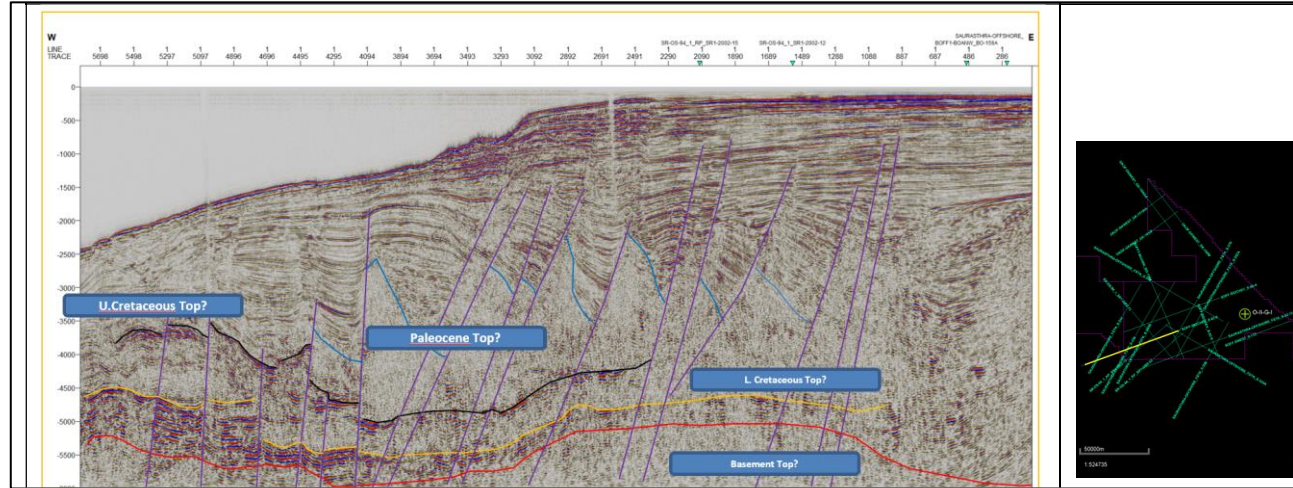
Saurashtra Basin

Prospective Area Name: GS-PA-16

Area: 7,838 SQ KM



Location Map

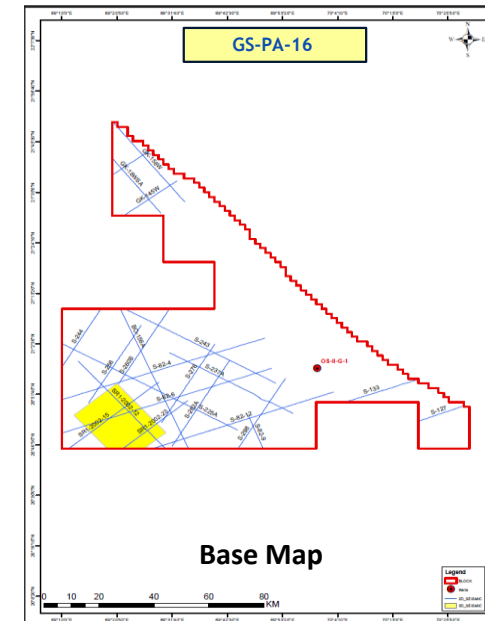


Representative Seismic Section

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
944	461	1

Prospective plays: To probe prospectivity in Middle Jurassic with Early Cretaceous.



Base Map

Petroleum System:

Source rock: Mesozoic

Reservoir: Late Jurassic, Cretaceous, Eocene-Early Miocene, Fractured Basalt

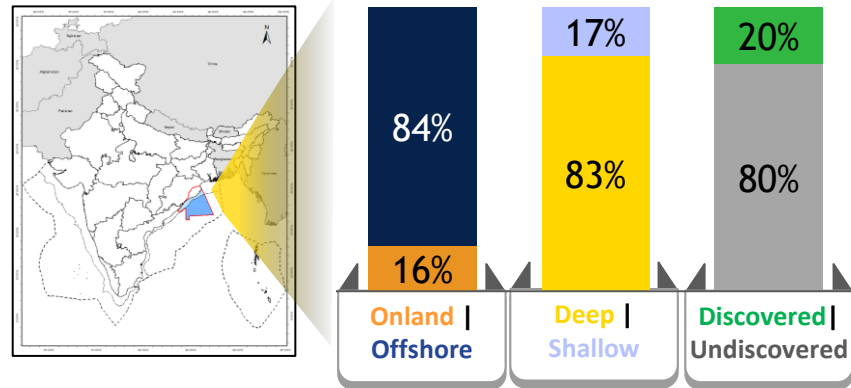
Seal: Basalt/Shale

Entrapment Mechanism: Strati-Structural & Structural

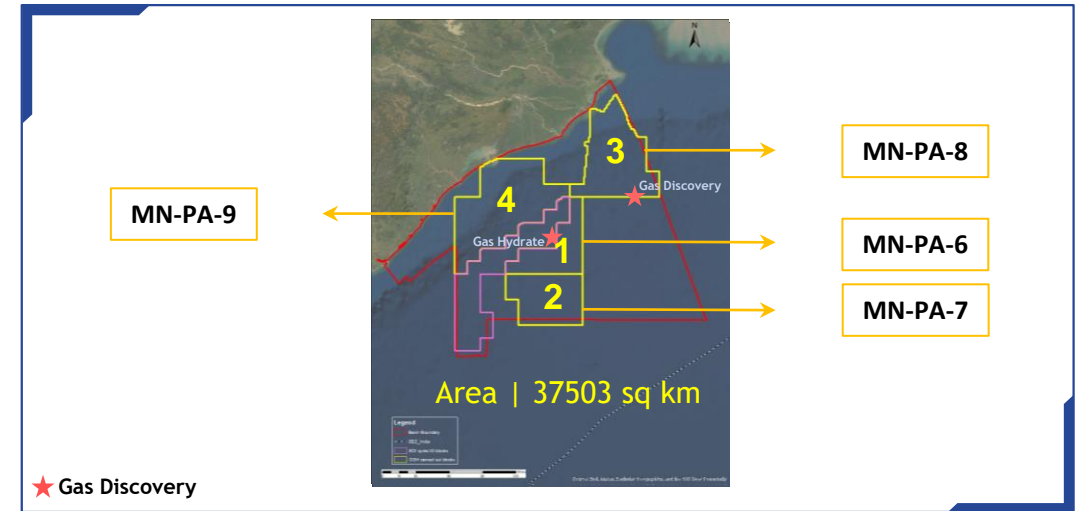
Envisaged plays: Jurassic, Cretaceous Plays

Mahanadi Basin

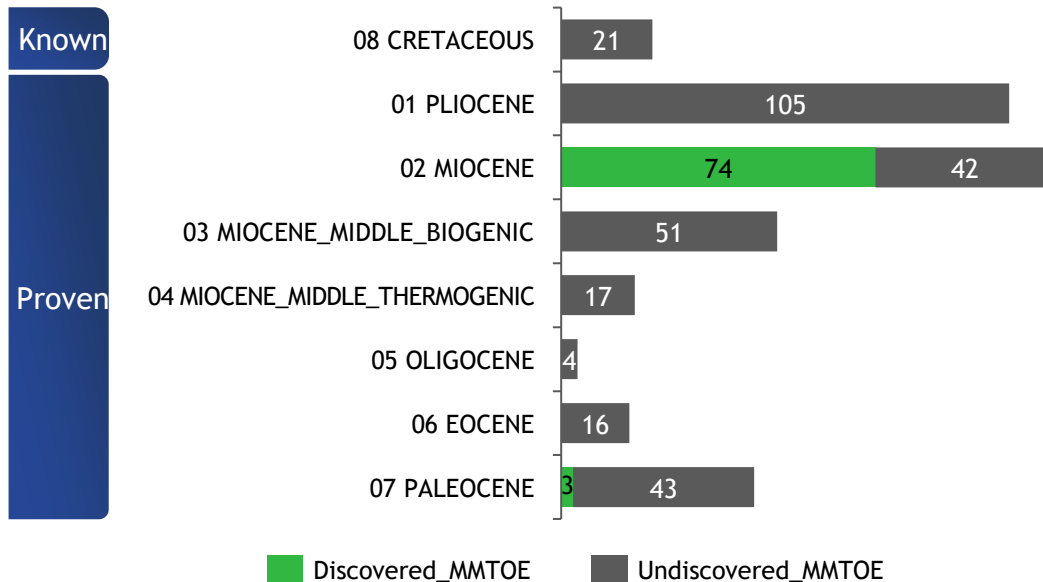
Significant resource in Mio-Pliocene



4 Prospective Areas Identified



Basin's risked resource potential - 299 MMTOE



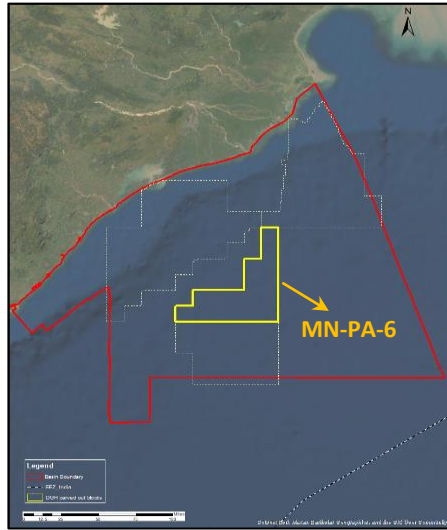
Key characteristics

- Strong analogy with easterly Bengal offshore that has numerous small-to-medium discoveries
- Discovered Miocene play occurs as discrete and stacked reservoirs
- Opportunity to explore significant prospective resource of Pliocene Play

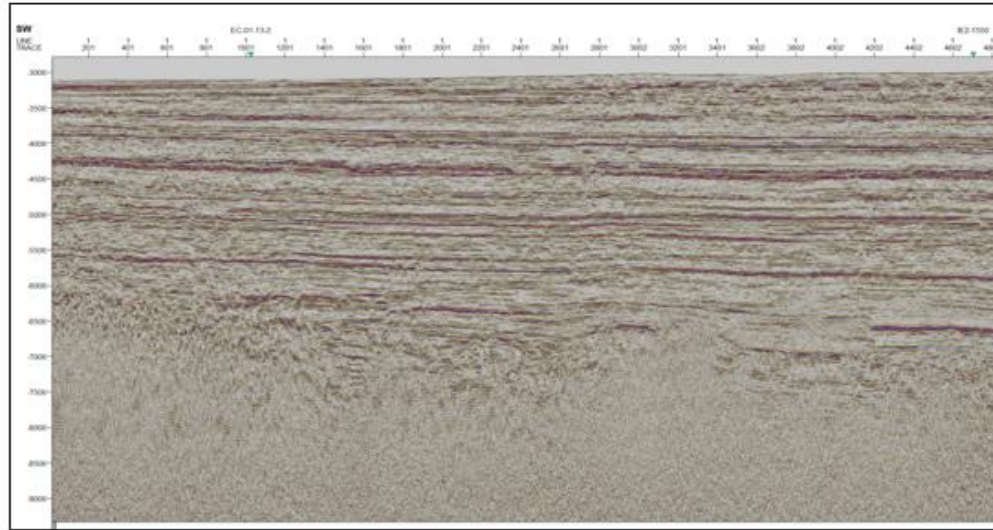
Mahanadi Basin

Prospective Area Name: MN-PA-6

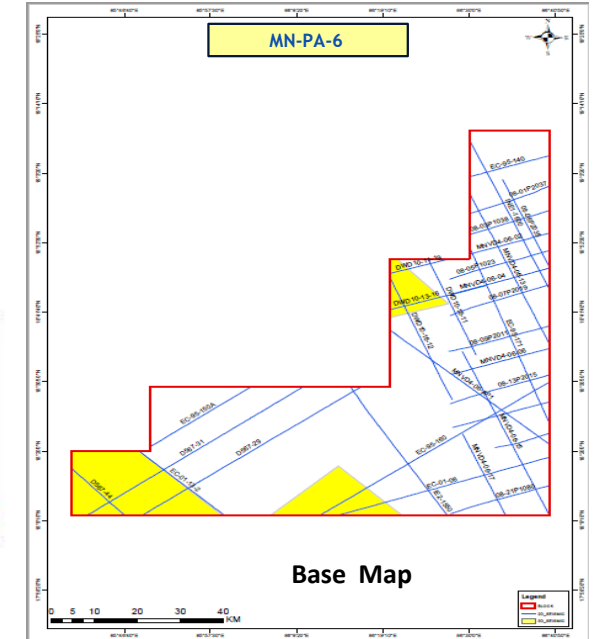
Area: 5,520 SKM



Location Map



Representative Seismic Section



Base Map

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
1022	759	0

Prospective plays: To explore prospectivity in Middle Miocene and Cretaceous plays.

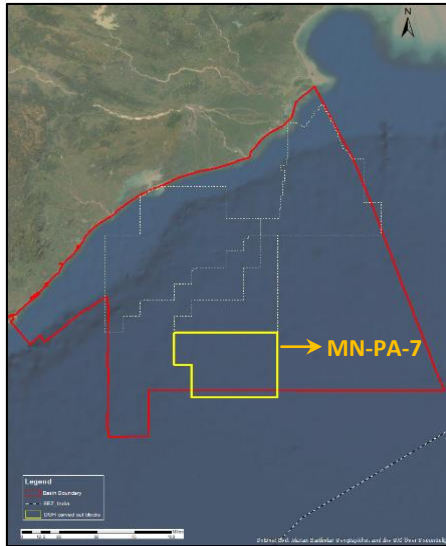
Petroleum System:

- **Source rock:** Cretaceous/Paleogene(Thermogenic), Neogene (Biogenic)
- **Reservoir:** Cretaceous, Oligocene, Mio-Pliocene and Pleistocene
- **Entrapment Mechanism:** Stratigraphic, Strati-structural
- **Envisaged plays:** Paleogene and Neogene are proven plays, while Cretaceous is known but un-discovered play.

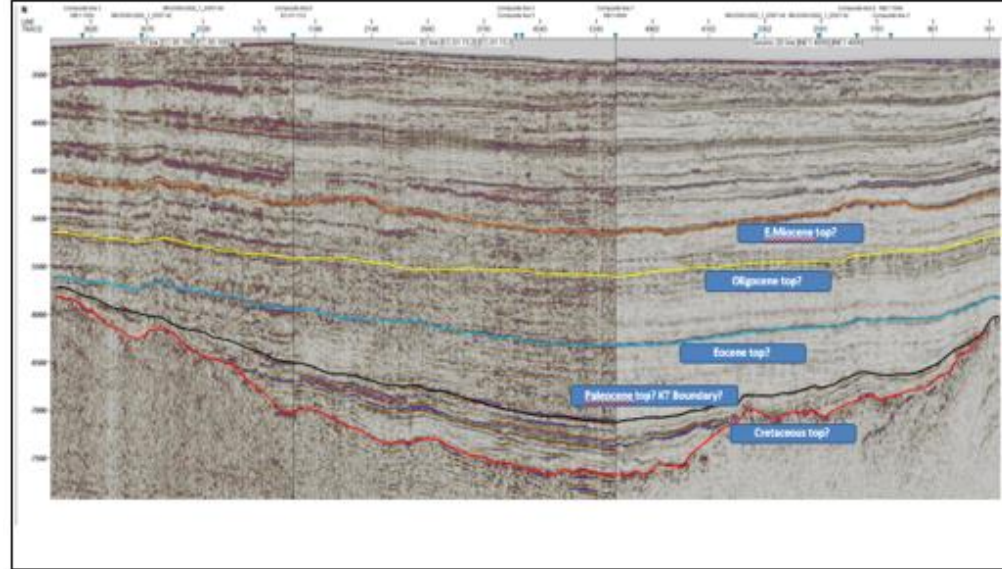
Mahanadi Basin

Prospective Area Name: MN-PA-7

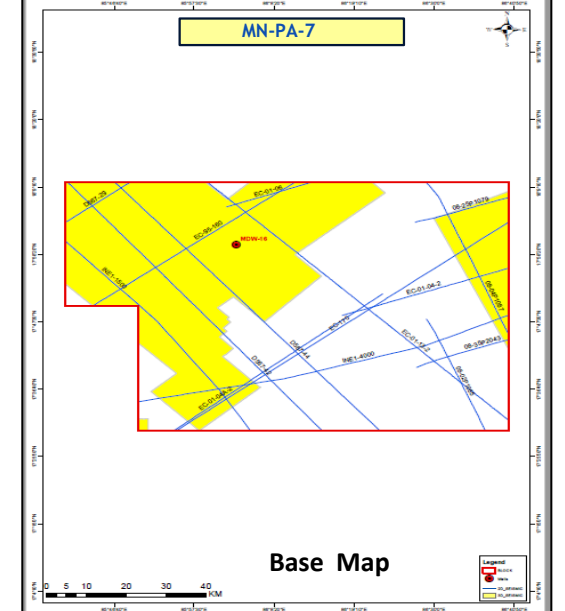
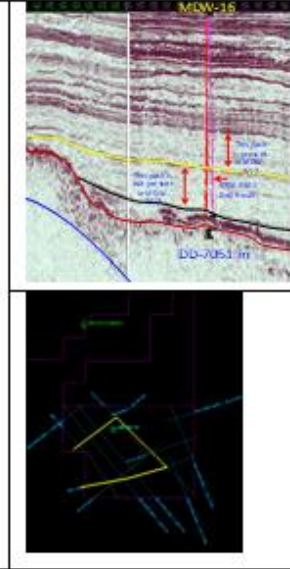
Area: 7,169 SKM



Location Map



Representative Seismic Section



Base Map

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
899	3850	1

Prospective plays: To explore prospectivity in Middle Miocene and Cretaceous plays.

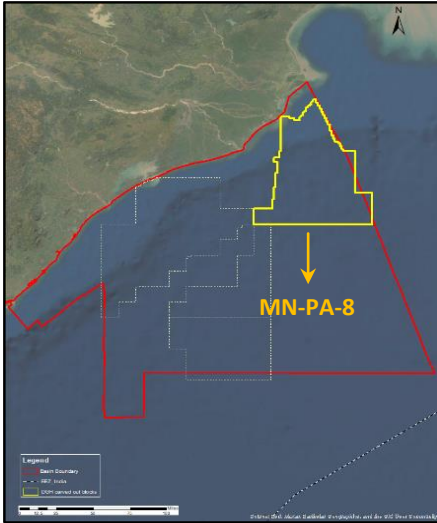
Petroleum System:

- **Source rock:** Cretaceous/Paleogene(Thermogenic), Neogene (Biogenic)
- **Reservoir:** Cretaceous, Oligocene, Mio-Pliocene and Pleistocene
- **Entrapment Mechanism:** Stratigraphic, Strati-structural
- **Envisaged plays:** Paleogene and Neogene are proven plays, while Cretaceous is known but un-discovered play.

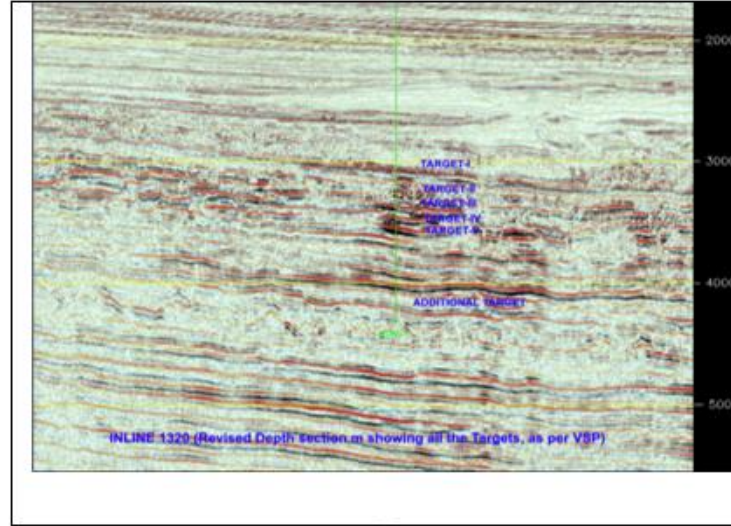
Mahanadi Basin

Prospective Area Name: MN-PA-8

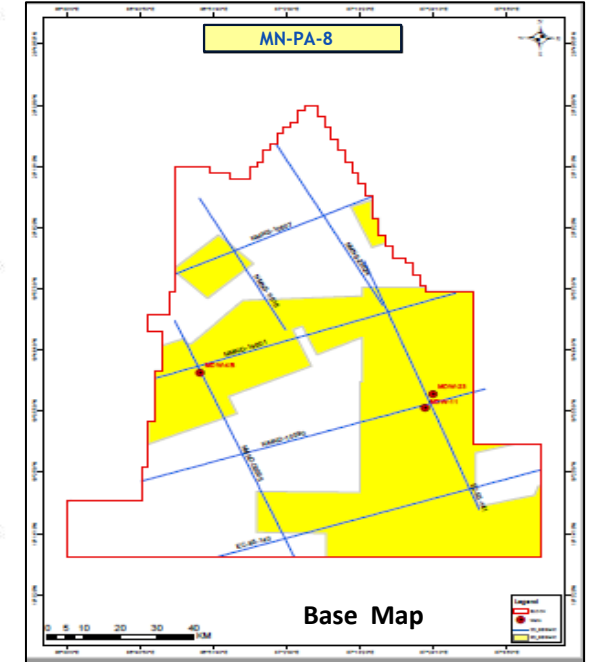
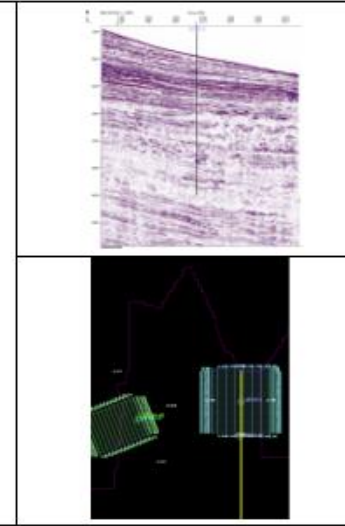
Area: 10,657 SKM



Location Map



Representative Seismic Section



Base Map

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
598	4504	3

Prospective plays: To explore prospectivity in Middle Miocene and Cretaceous

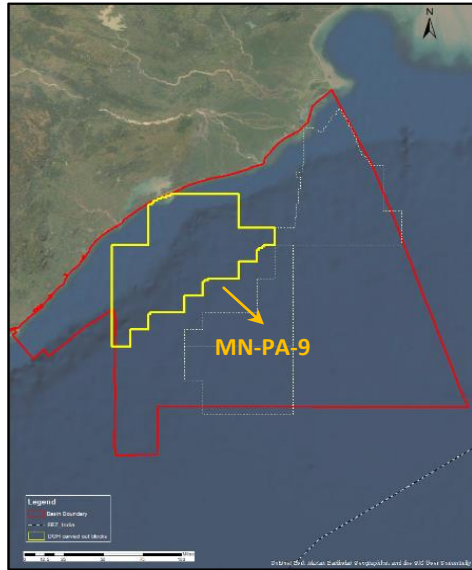
Petroleum System:

- **Source rock:** Cretaceous/Paleogene (Thermogenic), Neogene (Biogenic)
- **Reservoir:** Cretaceous, Oligocene, Mio-Pliocene and Pleistocene
- **Entrapment Mechanism:** Stratigraphic, Strati-structural
- **Envisaged plays:** Paleogene and Neogene are proven plays, while Cretaceous is known but un-discovered play.

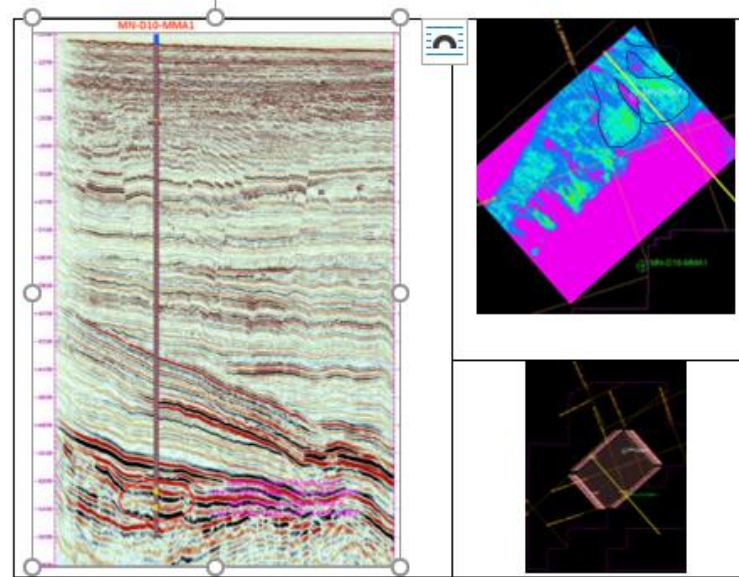
Mahanadi Basin

Prospective Area Name: MN-PA-9

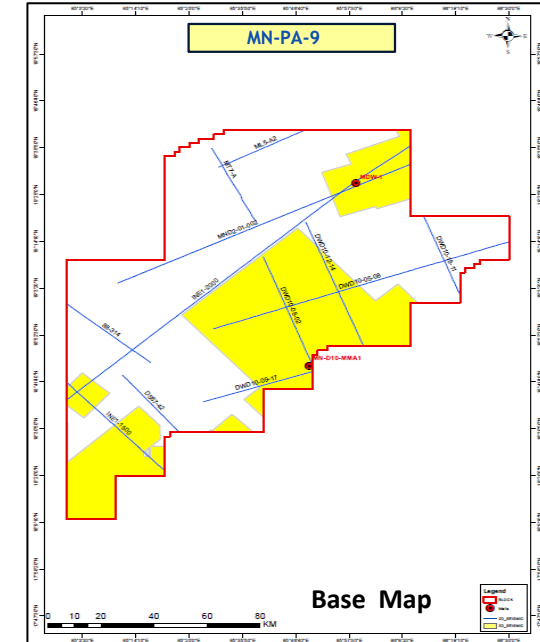
Area: 14,157 SKM



Location Map



Representative Seismic Section



Base Map

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
780	5845	2

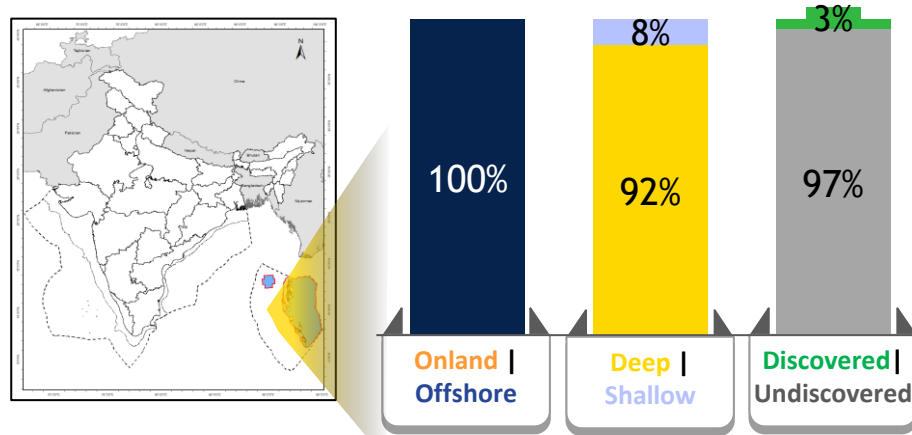
Prospective plays: To explore prospectivity in Middle Miocene and Cretaceous

Petroleum System:

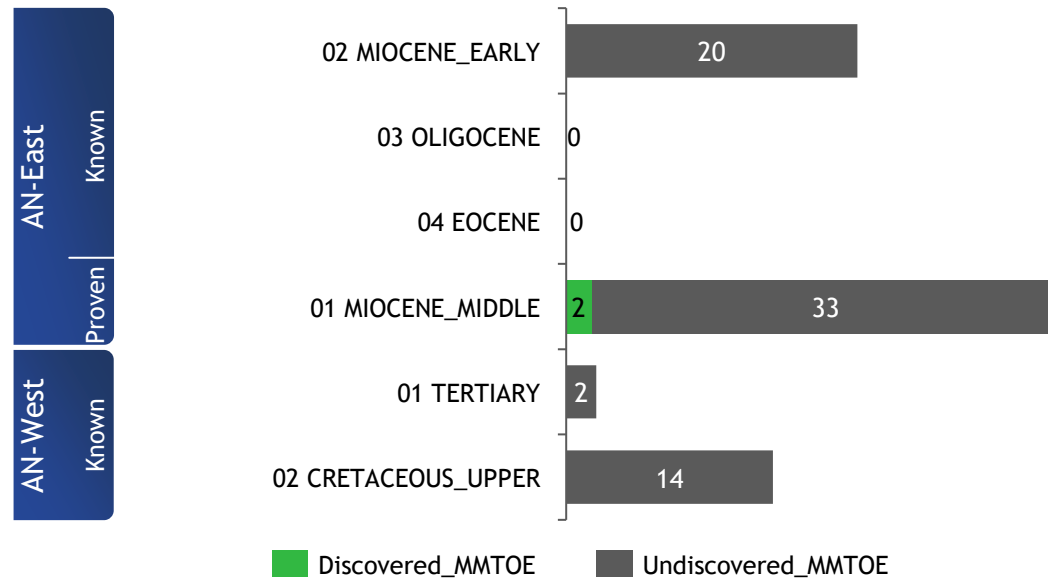
- **Source rock:** Cretaceous/Paleogene(Thermogenic), Neogene (Biogenic)
- **Reservoir:** Cretaceous, Oligocene, Mio-Pliocene and Pleistocene
- **Entrapment Mechanism:** Stratigraphic and Strati-structural
- **Envisaged plays:** Paleogene and Neogene are proven plays, while Cretaceous is known but undiscovered play.

Andaman Basin

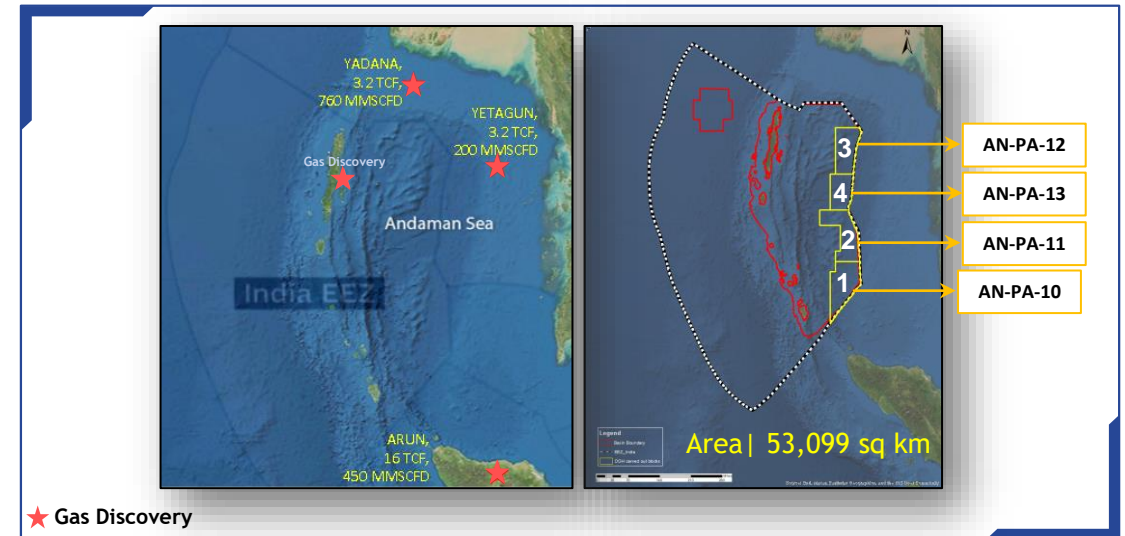
Strong analogy with nearby fields



Basin's risked resource potential - 70 MMTOE



4 Prospective Areas Identified



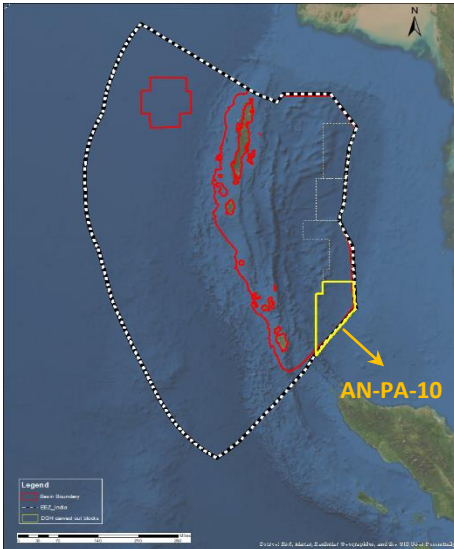
Key characteristics

- Fore-arc has a significant **Gas discovery in Miocene**, analogous to producing reservoirs of Myanmar and Indonesia gas fields
- **Back-arc area** has sediments with significant prospectivity in the **Eastern Part**
- **Gas hydrate** is established in Fore-arc

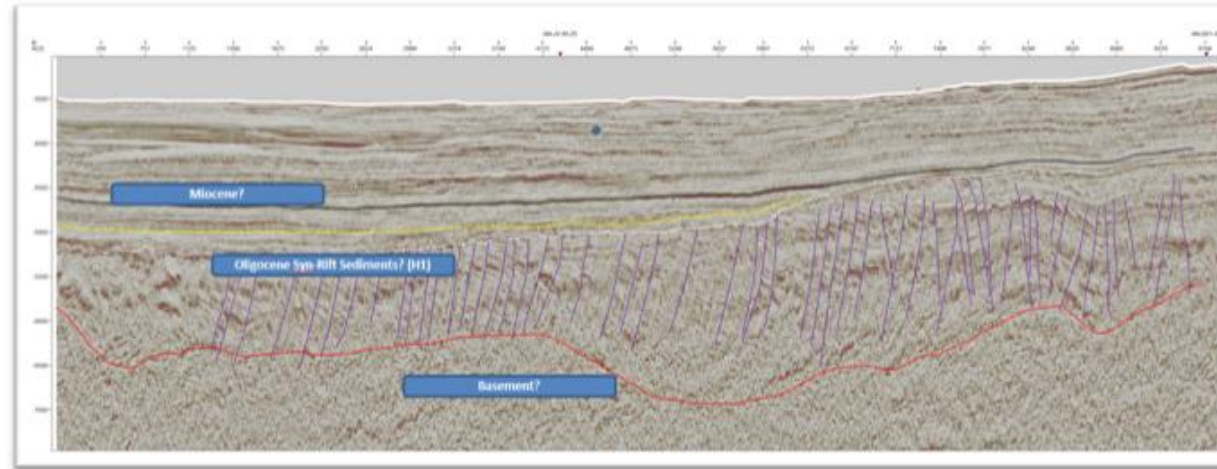
Andaman Basin

Prospective Area Name: AN-PA-10

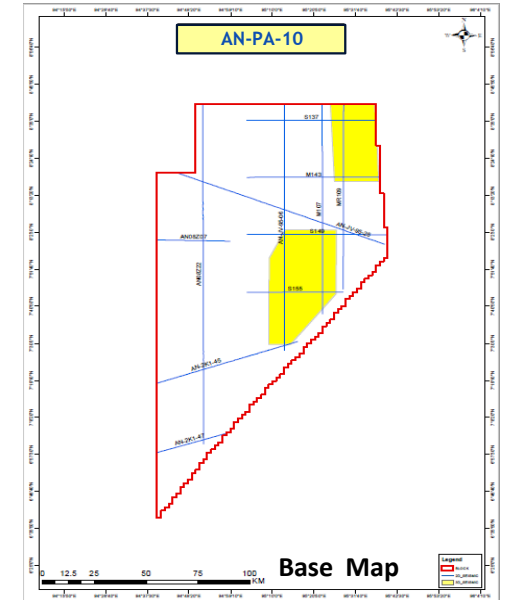
Area: 15,745 SKM



Location Map



Representative Seismic Section



Base Map

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
1016	2533	0

Prospective plays: To explore prospectivity in Miocene clastic. Oligocene formations may also be targeted as a secondary play.

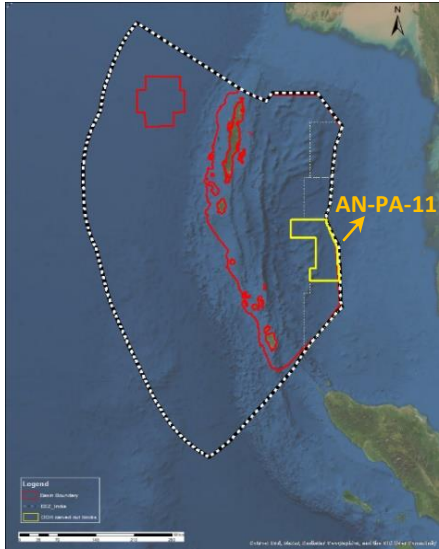
Petroleum System:

- **Source rock:** Upper Cretaceous and Paleogene formations.
- **Reservoir:** Dominantly Miocene clastic formations. Also evaluated in Oligocene and Paleocene-Eocene formations.
- **Entrapment mechanism:** Structural and stratigraphic combinations.
- **Seal:** Dominantly Miocene-Pliocene shales.
- **Envisaged plays:** Middle Miocene, Early Miocene, Oligocene and Eocene.

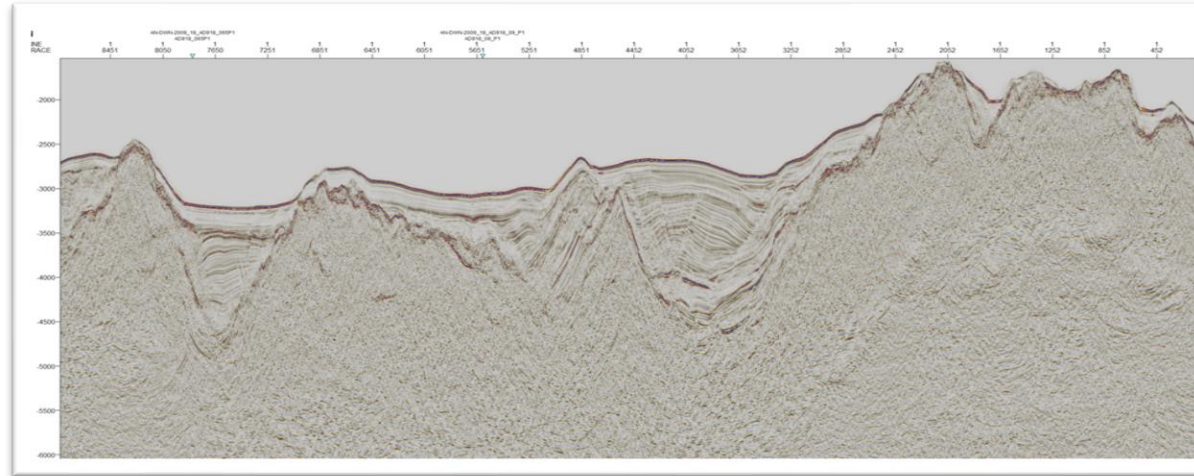
Andaman Basin

Prospective Area Name: AN-PA-11

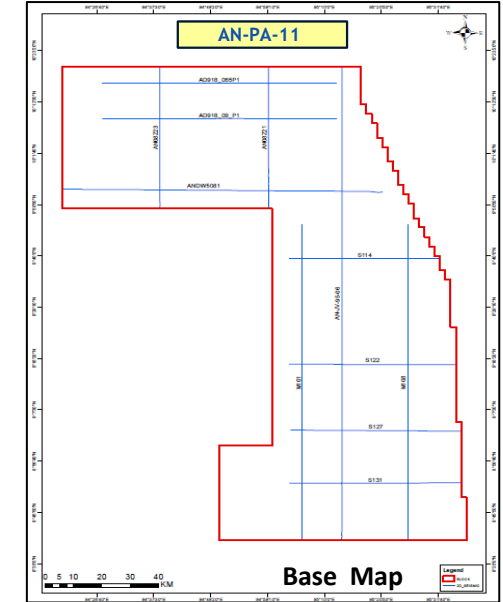
Area: 14,928 SKM



Location Map



Representative Seismic Section



Base Map

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
1046	0	0

Prospective plays: To explore prospectivity in Miocene clastic. Oligocene and Paleocene-Eocene formations may also be targeted as secondary plays.

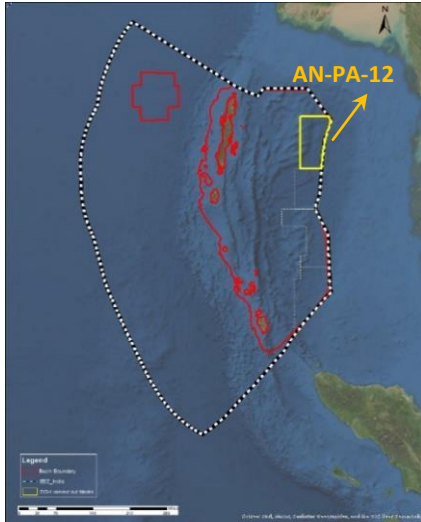
Petroleum System:

- **Source rock:** Upper Cretaceous and Paleogene formations.
- **Reservoir:** Dominantly Miocene clastic formations. Also evaluated in Oligocene and Paleocene-Eocene formations.
- **Entrapment mechanism:** Structural and stratigraphic combinations.
- **Seal:** Dominantly Miocene-Pliocene shales.
- **Envisaged plays:** Middle Miocene, Early Miocene, Oligocene and Eocene.

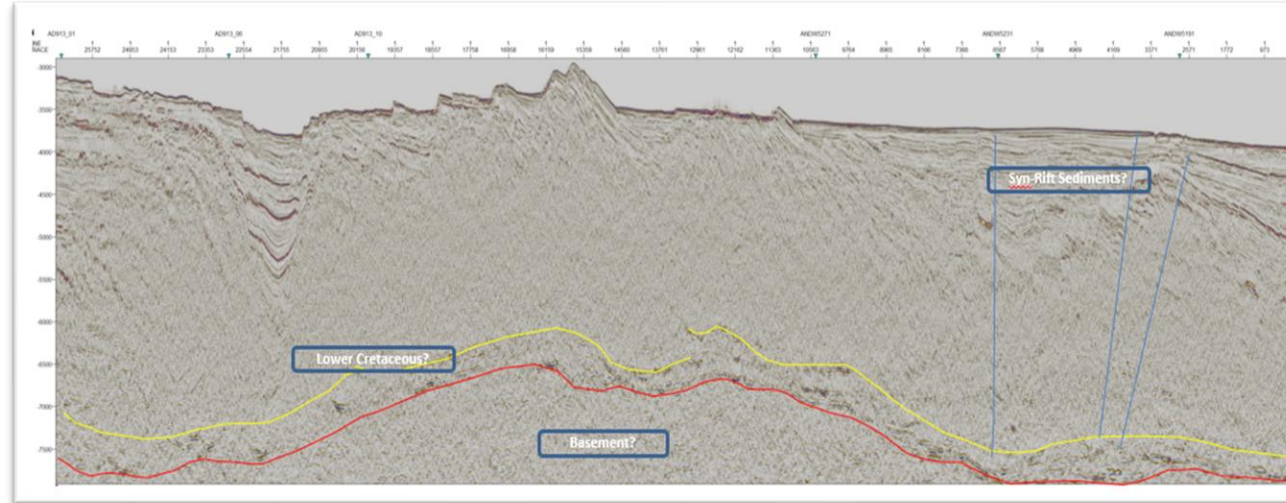
Andaman Basin

Prospective Area Name: AN-PA-12

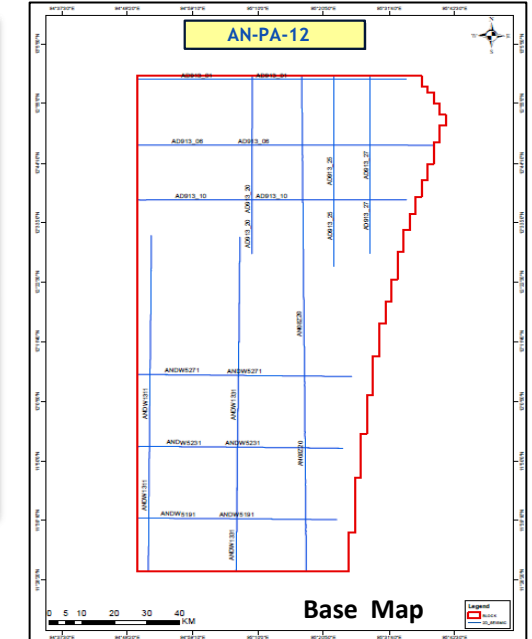
Area: 12,532 SKM



Location Map



Representative Seismic Section



Base Map

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
1011	0	0

Prospective plays: To explore prospectivity in Miocene clastic. Oligocene and Paleocene-Eocene formations may also be targeted as secondary plays.

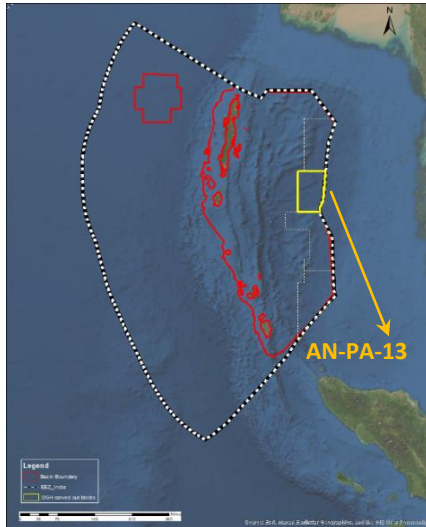
Petroleum System:

- **Source rock:** Upper Cretaceous and Paleogene formations.
- **Reservoir:** Dominantly Miocene clastic formations. Also evaluated in Oligocene and Paleocene-Eocene formations.
- **Entrapment mechanism:** Structural and stratigraphic combinations.
- **Seal:** Dominantly Miocene-Pliocene shales.
- **Envisaged plays:** Middle Miocene, Early Miocene, Oligocene and Eocene.

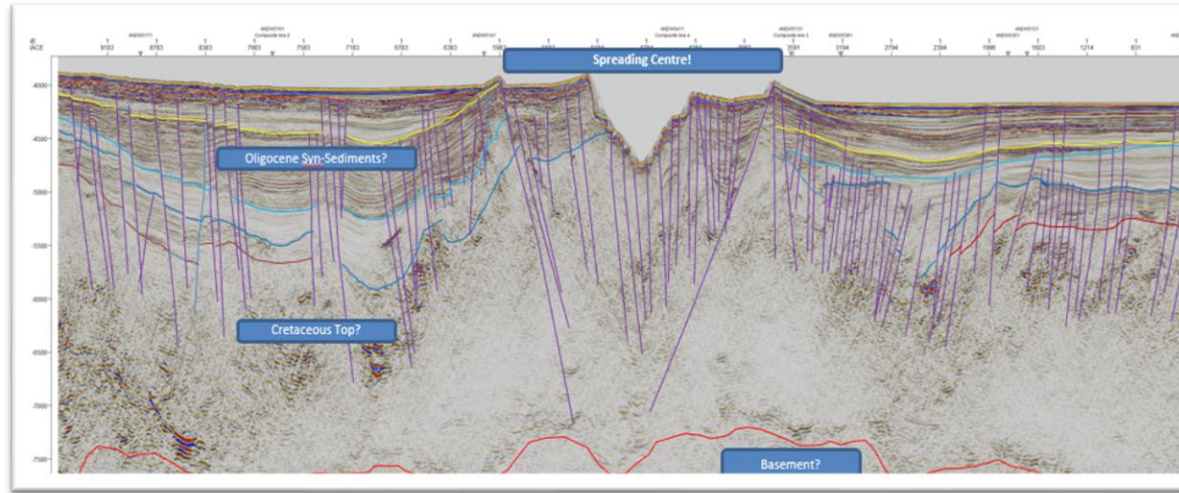
Andaman Basin

Prospective Area Name: AN-PA-13

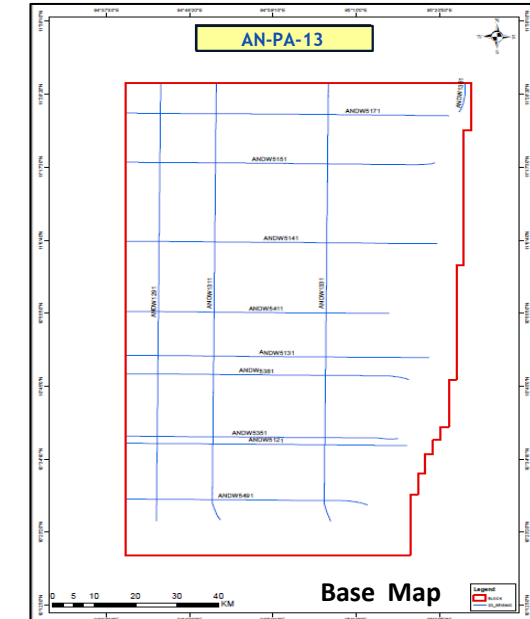
Area: 9,895 SKM



Location Map



Representative Seismic Section



Base Map

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
984	0	0

Prospective plays: To explore prospectivity in Miocene clastic. Oligocene and Paleocene-Eocene formations may also be targeted as secondary plays.

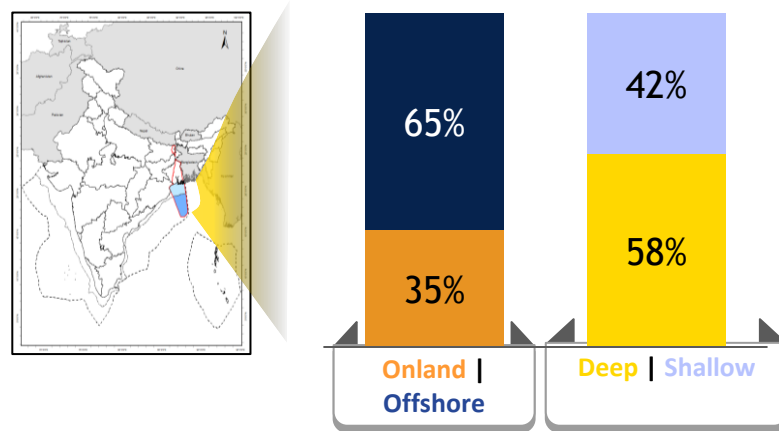
Petroleum System:

- **Source rock:** Upper Cretaceous and Paleogene formations.
- **Reservoir:** Dominantly Miocene clastic formations. Also evaluated in Oligocene and Paleocene-Eocene formations.
- **Entrapment mechanism:** Structural and stratigraphic combinations.
- **Seal:** Dominantly Miocene-Pliocene shales.
- **Envisaged plays:** Middle Miocene, Early Miocene, Oligocene and Eocene.

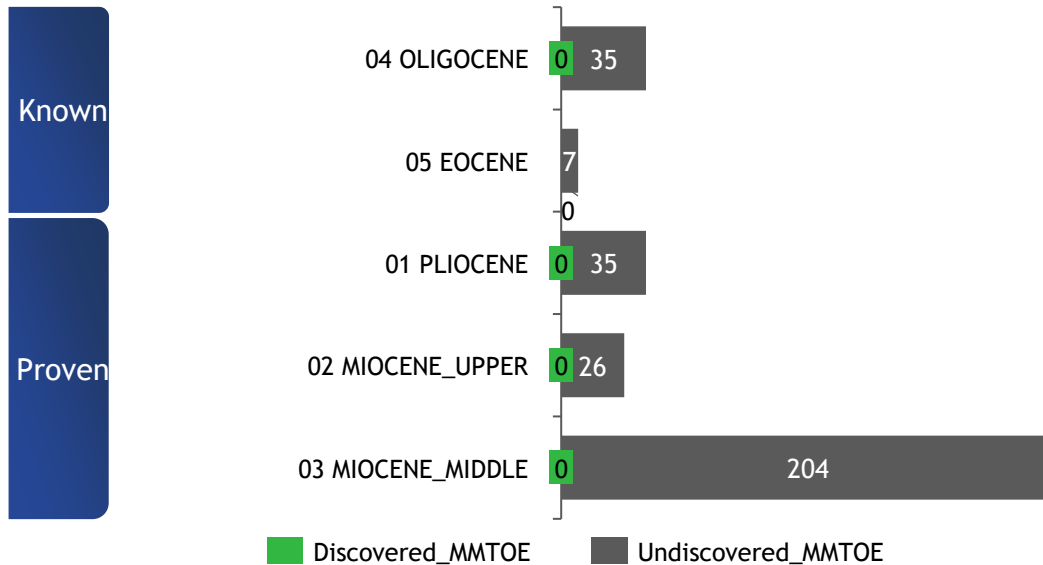
**Prospective Areas
in
Category – III Basin**

Bengal-Purnea Basin

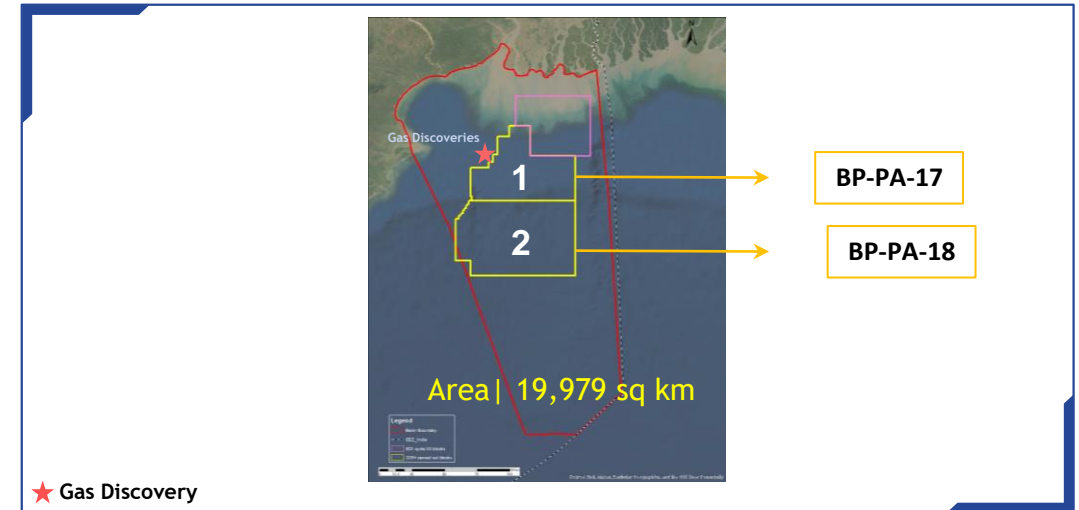
Significant resource in Miocene



Basin's risked resource potential - 306 MMTOE



2 Prospective Areas Identified



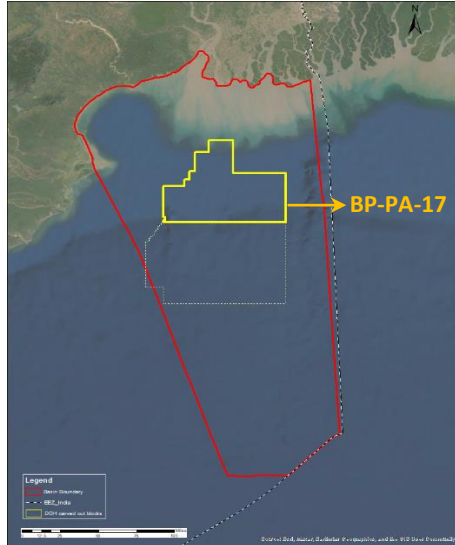
Key characteristics

- 2/3rd potential lies in **Middle Miocene** play
- Blocks close to a contract area with **6 gas discoveries**, contemplated for development
- Occurrence of channelized deposits associated to subtle structures in the **east-central area**

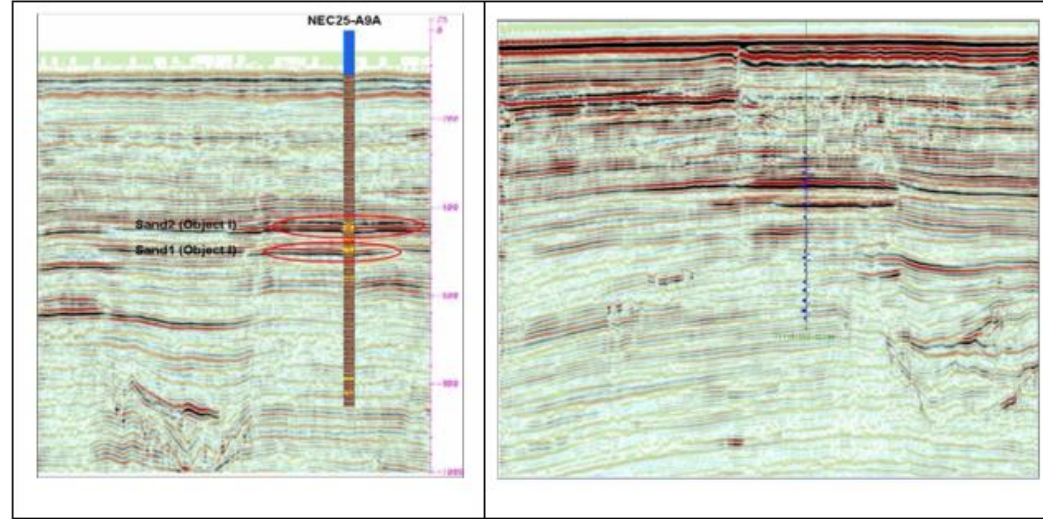
Bengal-Purnea Basin

Prospective Area Name: BP-PA-17

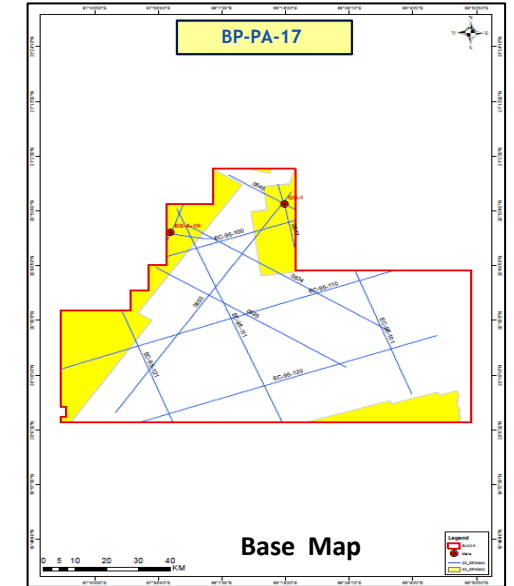
Area: 7,626 SKM



Location Map



Representative Seismic Sections



Base Map

Data Availability

2D (LKM)	3D (SKM)	Exp. Well
728	1684	2

Prospective plays: To explore prospectivity in Mio-Pliocene Formation and Oligocene Formation in the block area.

Petroleum System:

Source rock: Palaeogene and Cretaceous sediments (Thermogenic), Neogene (Biogenic)

Reservoir: Mio-Pliocene Formation and Oligocene Formation

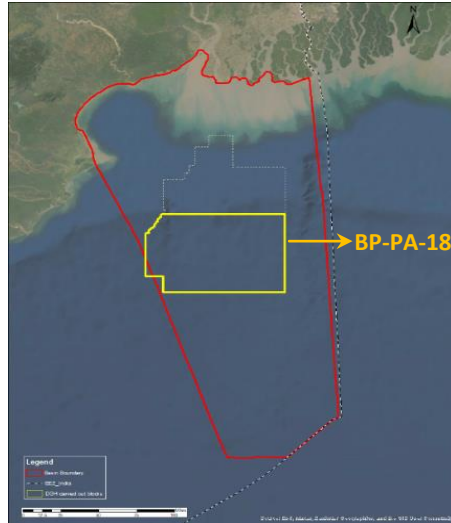
Entrapment mechanism: Structural, stratigraphic and strati-structural

Envisaged plays: Middle/Upper Miocene and Pliocene are proven plays, while Eocene and Oligocene are known but un-discovered.

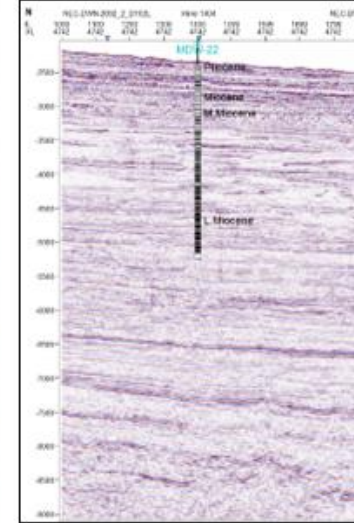
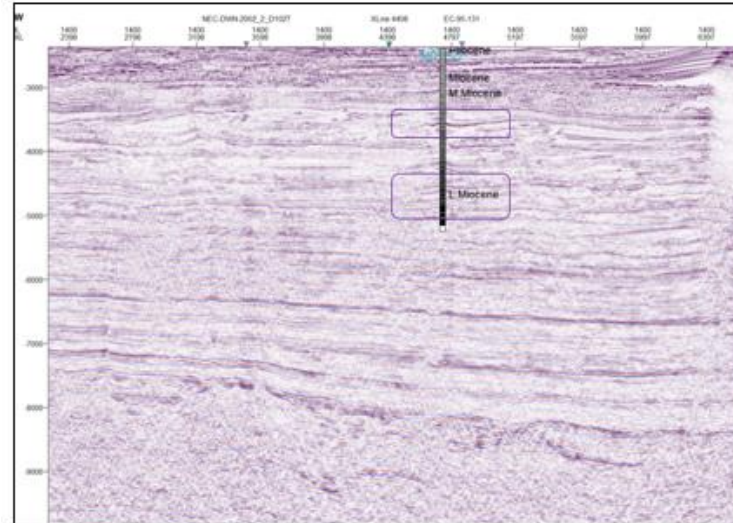
Bengal-Purnea Basin

Prospective Area Name: BP-PA-18

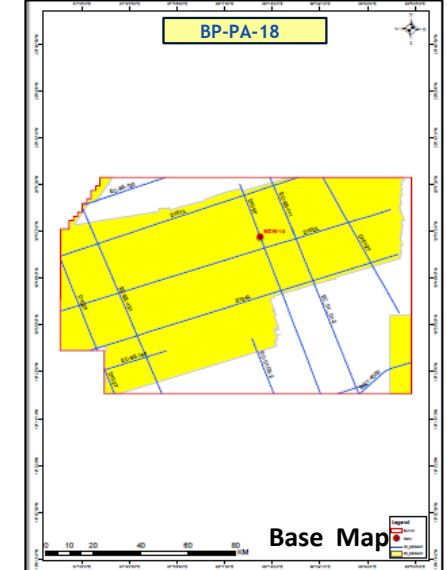
Area: 12,353 SKM



Location Map



Representative Seismic Sections



Data Availability

2D (LKM)	3D (SKM)	Exp. Well
894	7702	1

Prospective plays: To explore prospectivity in Miocene-Pliocene clastic. Oligocene formations may also be targeted as a secondary reservoir.

Petroleum System:

Source rock: Palaeogene and Cretaceous sediments (Thermogenic), Neogene (Biogenic)

Reservoir: Mio-Pliocene Formation and Oligocene Formation

Entrapment mechanism: Structural (fault or small 4-way closures), stratigraphic (channel-levee complex) and strati-structural

Envisaged plays: Oligocene (thermogenic), Middle Miocene (Thermogenic), Upper Miocene (Biogenic) and Pliocene (Biogenic) play



Directorate General of Hydrocarbons

(Under Ministry of Petroleum & Natural Gas)

OIDB Bhawan, Tower-A, Sector-73

Noida-201301, U.P. (INDIA)



For details contact : Email : facilitationoal@dghindia.gov.in / Web : www.dghindia.gov.in

Tel.: +91-120-2472000

Fax- +91-120-2472049