



सत्यमेव जयते

Ministry of Petroleum & Natural Gas
Government of India

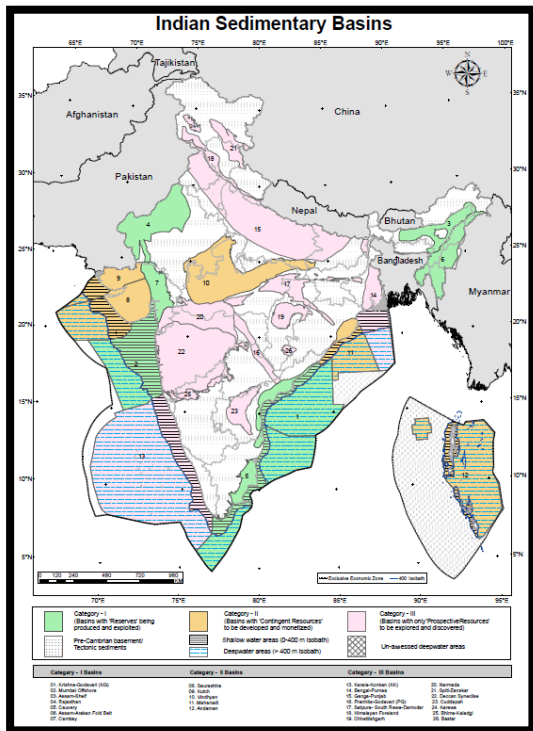
Overview of Indian Sedimentary Basins and Blocks-on-Offer (under OALP Bid Round III)

Presentation outline

- ❑ Indian Sedimentary Basins
- ❑ Hydrocarbon Resources Reassessment Study
- ❑ Contract Areas-on-Offer
- ❑ Basin-wise Brief of Contract Areas
- ❑ Summary

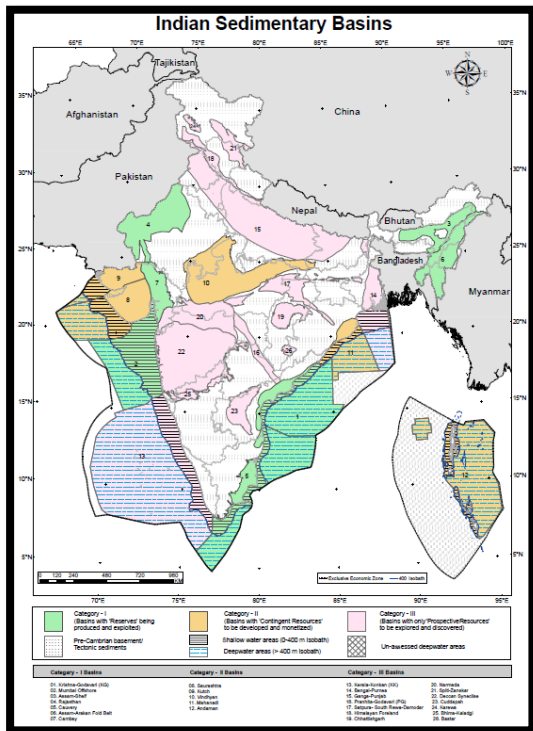
INDIAN SEDIMENTARY BASINS

Basin category



- **A new 3-tier category for 26 basins**
- A simplified approach to present the Category based on the **maturity of resources** in line with PRMS standard
- **Category I:** 7 basins which are commercially producing from established petroleum resources (“**RESERVES**”)
- **Category II:** 5 basins which have established petroleum resources but are yet to produce commercially (“**CONTINGENT RESOURCES**”)
- **Category III:** 14 basins which have prognosticated resources but still to be discovered (“**PROSPECTIVE RESOURCES**”)

Basins under category



- **KRISHNA-GODAVARI(KG), MUMBAI OFFSHORE, ASSAM SHELF, RAJASTHAN, CAUVERY, ASSAM-ARAKAN FOLD BELT and CAMBAY**

RESERVES	CONTINGENT	PROSPECTIVE
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- Saurashtra, Kutch, Vindhyan, **MAHANADI, BENGAL-PURNEA** and Andaman

CONTINGENT RESOURCES	PROSPECTIVE RESOURCES
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- **KERALA-KONKAN, Ganga-Punjab, PRANHITA-GODAVARI(PG), SATPURA-SOUTH REWA-DAMODAR, Himalyan Foreland, Chattisgarh, Narmada, Spiti-Zanskar, Deccan Syncline, Cuddapah, Karewa, Bhima-Kaladgi and Bastar**

PROSPECTIVE RESOURCES

* Shown in bold caps are the target basins under Round III Offer

HYDROCARBON RESOURCES REASSESSMENT STUDY

Overview of the study

- During 2017-18, hydrocarbon reassessment was carried out for all 26 basins
- **Assessment done for conventional reservoirs only**
- Reviewed by international domain-specialists and Indian basin-experts
- Assessed 13 basins with adequate datasets through “Petroleum System Modeling”
 - 9 basins (Assam Shelf, Cambay, Rajasthan, Mumbai, KG, Cauvery, Mahanadi, Bengal-Purnea and Kerala-Konkan) : entire area
 - 4 basins (Assam Arakan, Andaman, Kutch and Saurashtra) : part area
- **Identified a total of 177 Plays**
 - 87 in Tertiary, 53 in Mesozoic and 37 Pre-Mesozoic
- **Identified new plays**
 - Mesozoic reservoirs in 14 basins
 - Basement fractures in many new discoveries

Results of the Study

- Last assessment done in 1995-96 for 15 sedimentary basins :
 - Total Inplace assessed: 28,085 MMTOE (206 BBBLOE)
 - Deepwater separately assessed with 7,000 MMTOE inplace
- Current assessment done for all 26 basins with deepwater areas included
 - Inplace Reassessed: 41,872 MMTOE (307 BBBLOE), including 11 basins not earlier assessed with 868 MMTOE inplace
 - Discovered: 12,076 MMTOE (89 BBBLOE)
 - **Undiscovered: 29,796 MMTOE (218 BBBLOE), 71% of the total inplace**
- **Increase of total hydrocarbon estimate: 49.1%**
- Reassessment at **hydrocarbon play** level
- A complete **geoscientific database** with easy-to-use subsurface models, maps and reports

Results compared

1995-96 study

- ❑ Carried out for 15 basins
- ❑ Simplistic tools and limited datasets
- ❑ Areal Yield (AY) method used for all basins
- ❑ Assessment at 'basin' level
- ❑ Deepwater areas excluded and assessed separately

2017-18 study

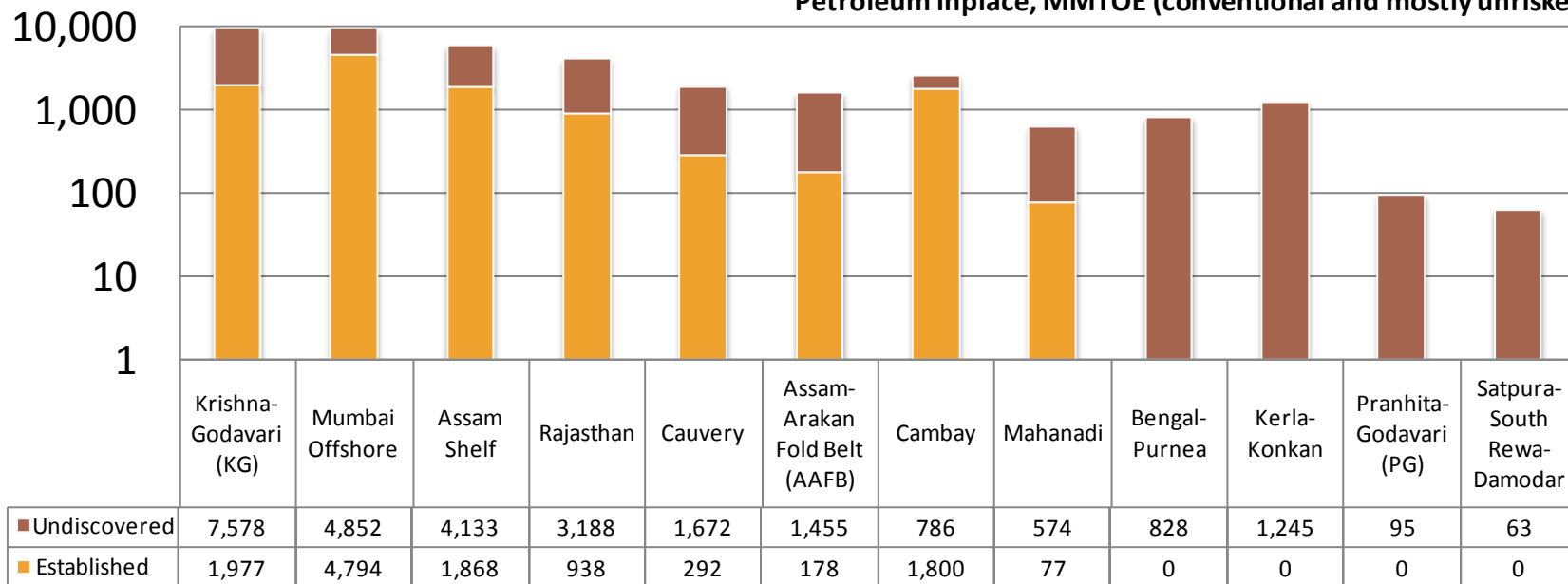
- ❑ All 26 basins re-assessed
- ❑ Sophisticated tools and expanded datasets
- ❑ 13 basins/basin areas with enough datasets were assessed through 3D petroleum system modeling
- ❑ Assessment at 'play' level
- ❑ Deepwater included and assessed with basins

CONTRACT AREAS-ON-OFFER

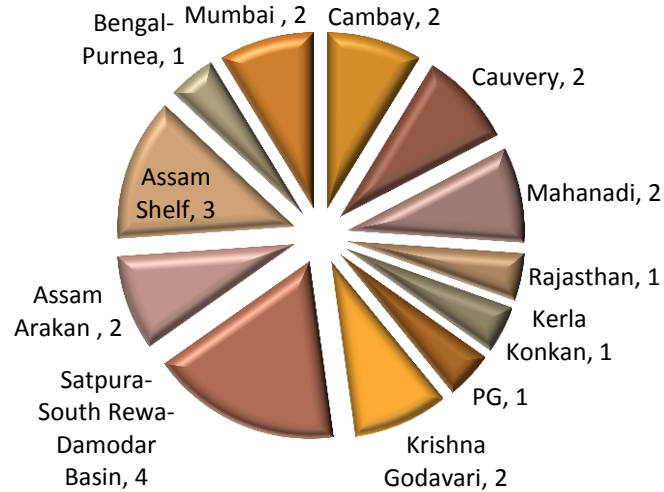
Basin-wise Hydrocarbon Resources

(Target Basins under Bid Round III)

Petroleum inplace, MMTOE (conventional and mostly unrisked)



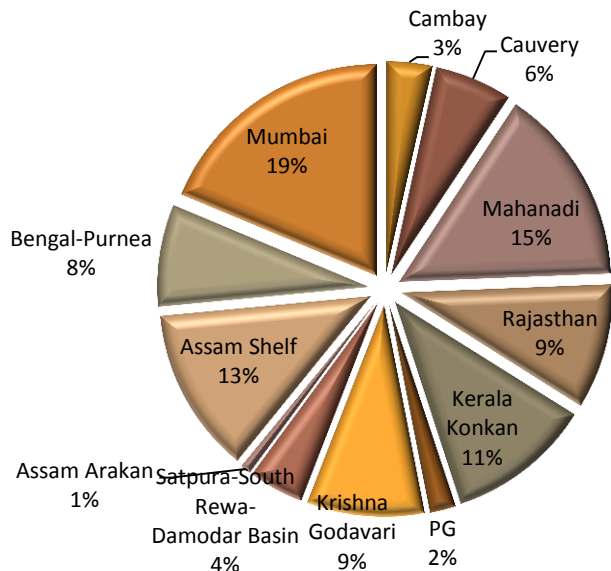
OALP Blocks across Basins



- ❑ **Total 23 blocks on offer including 5 CBM**
- ❑ Distributed into 12 sedimentary basins
- ❑ Satpura-South Rewa-Damodar Basin has most number of blocks (4)- all CBM

- ❑ **14 blocks from Category I basins**
- ❑ 3 blocks from Category II
- ❑ 6 blocks from Category III

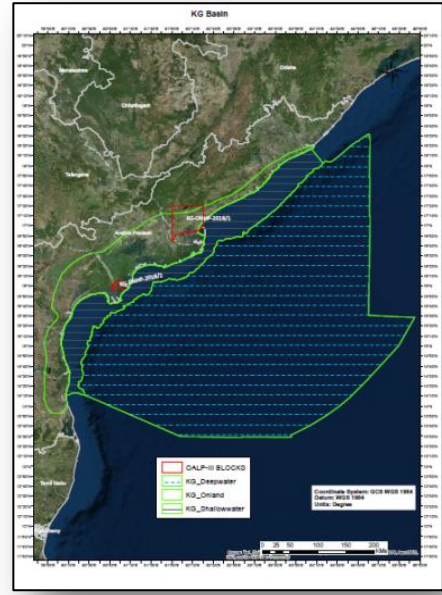
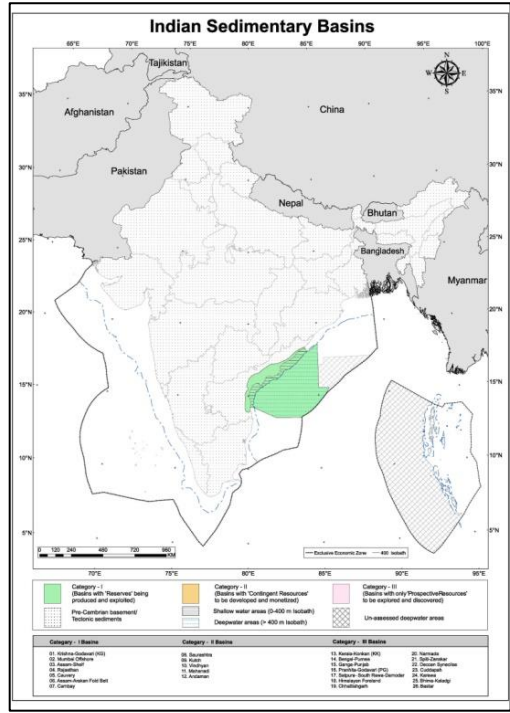
Basin Area across Blocks



- ❑ **Total area 31,722 sq km**
- ❑ Mumbai, Mahanadi, Assam Shelf and Kerala-Konkan have maximum acreage
- ❑ **14 blocks in Onland**
(17,818 sq km, 56% of total offering)
- ❑ 3 in Shallow-water
(9,456 sq km, 30%)
- ❑ 1 block in Deepwater
(2,491 sq km, 8%)
- ❑ 5 block under CBM
(1,957 sq km, 6%)

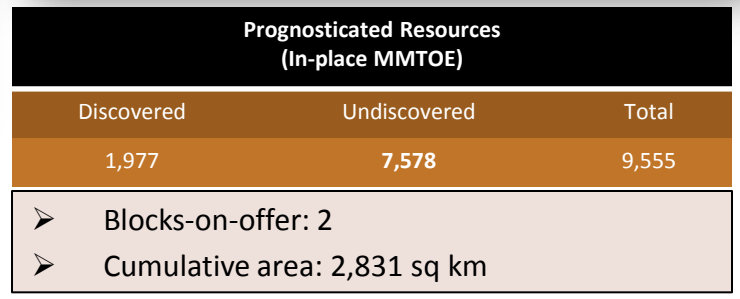
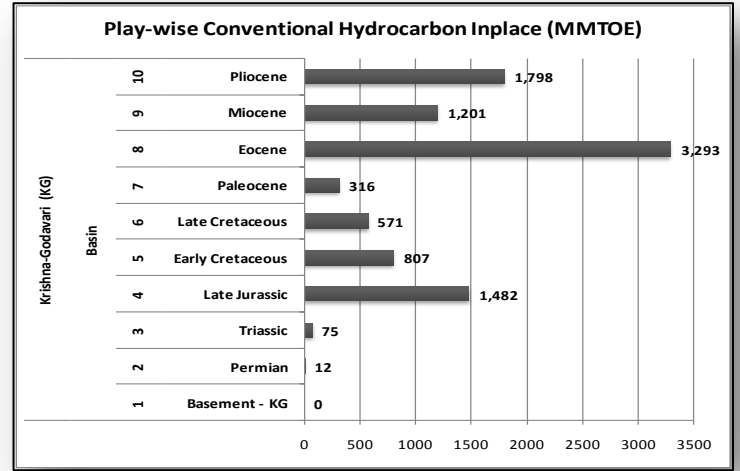
BASIN-WISE BRIEF OF CONTRACT AREAS

Krishna-Godavari Basin



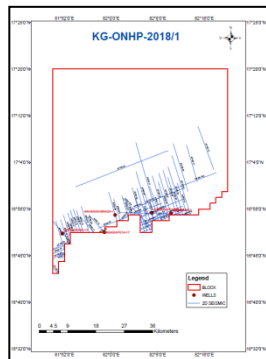
KG-ONHP-2018/1

KG-ONHP-2018/2



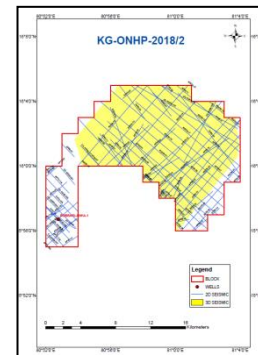
Krishna-Godavari Basin

KG-ONHP-2018/1



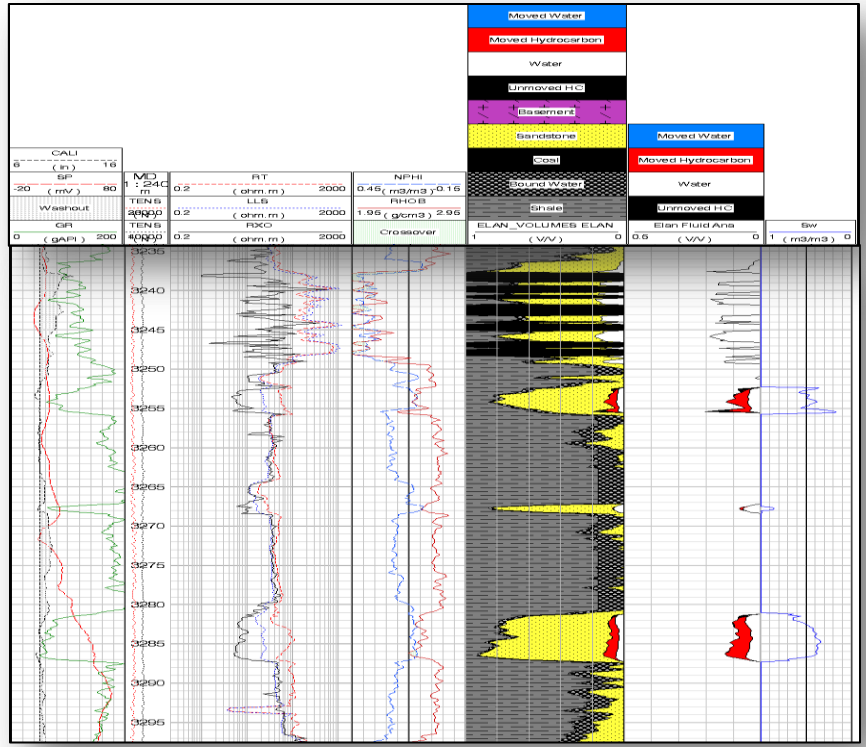
- ❑ Commercial hydrocarbon accumulations in Archean fractured basement and synrift Gollapalli sandstone are established.
- ❑ Endamuru, Kommugudem, Draksharama, Dangeru and Mandapeta areas have reported major discoveries in multiple pays.
- ❑ Target Depth: 2,000 m.
- ❑ Approximate Area 2,601 Sq. Km.
- ❑ Datasets: 2D Seismic, 5 Wells, 10 Reports

KG-ONHP-2018/2



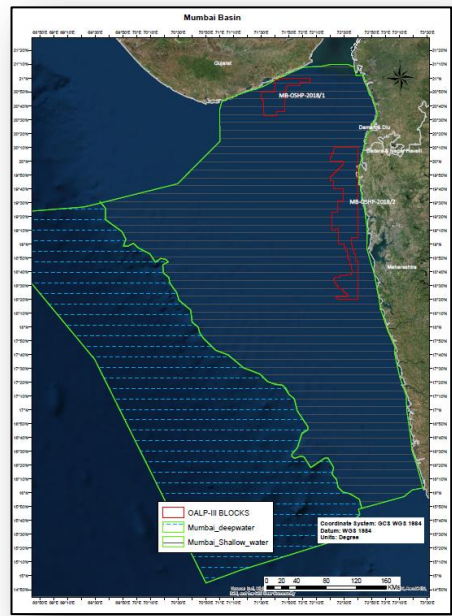
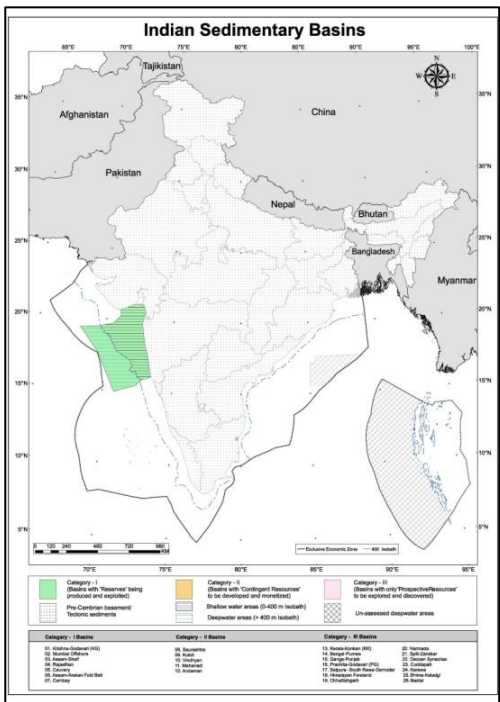
- ❑ Located on the flanks of Kaza tectonic high.
- ❑ Rift-fill sequence of Nikkamaru area and gas producing sequence in Nandigama are expected.
- ❑ Jurassic-to- Early Cretaceous (Gollapalli) and Cretaceous-L. Cretaceous (Raghavapuram) plays are envisaged in this block.
- ❑ Target Depth: 4,000 m.
- ❑ Approximate Area 230 Sq. Km.
- ❑ Datasets: 2D Seismic, 3D Seismic, 1 Well, 2 Reports

Krishna-Godavari Basin



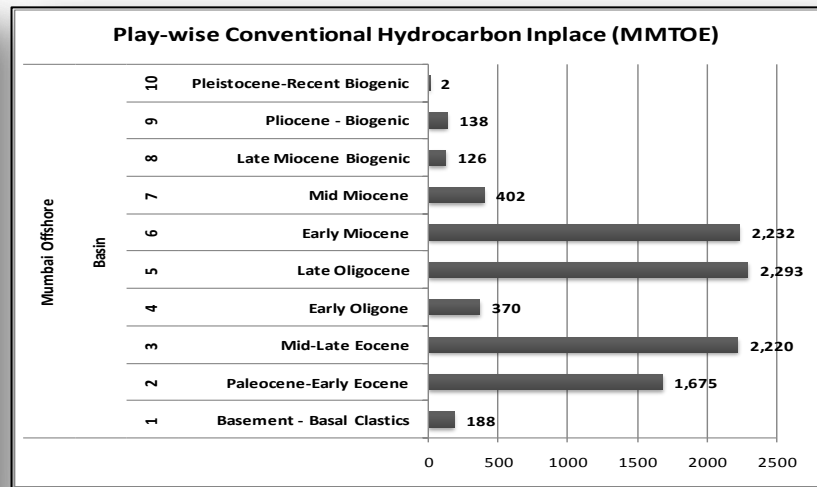
- **KG Onland Paleozoic**
- **Gas @ 25k+ SCMD**
- **Choke: 16/64"**
- **Formation: Kommugudem (Permo-Triassic)**
- **Depth: ~3,300m**

Mumbai Offshore Basin



MB-OSHP-2018/1

MB-OSHP-2018/2



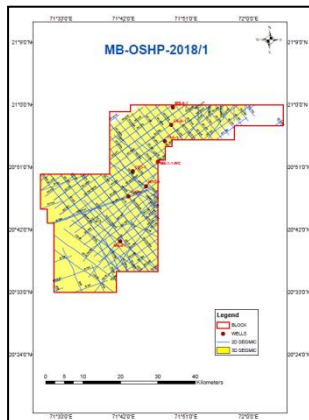
Prognosticated Resources (In-place MMTOE)

Discovered	Undiscovered	Total
4794	4,852	9,646

- Blocks-on-offer: 2
- Cumulative area: 5,936 sq km

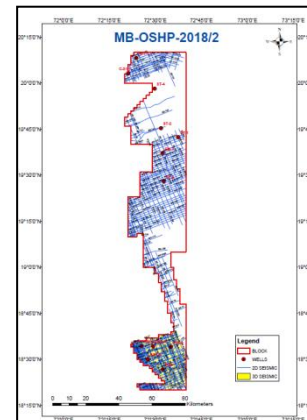
Mumbai Offshore Basin

MB-OSHP-2018/1



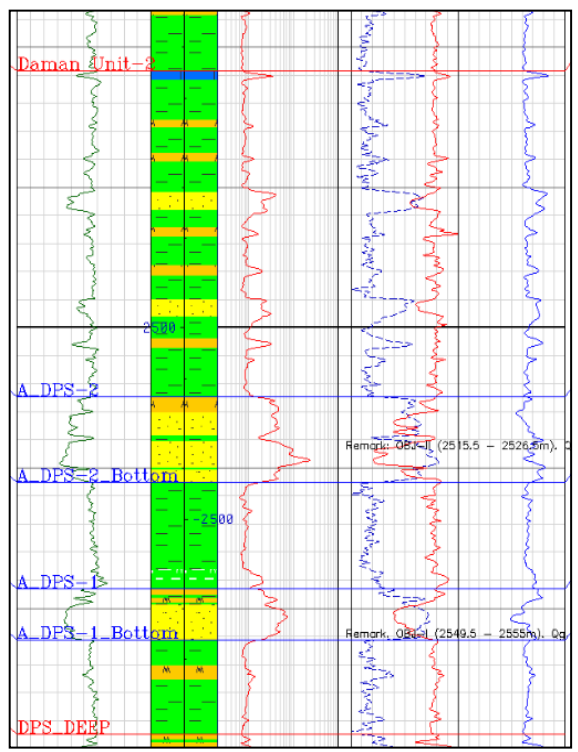
- Hydrocarbons are established in Mahim, Daman and Mahuva formations in C-37, NMT, Mid Tapti and Ambe fields.
- Prospects in Panna, Diu, Mahuva and Mahim formations.
- Target Depth: 1,400 m
- Approximate Area 1,268 Sq. Km.
- Datasets: 2D Seismic, 3D seismic, 8 Wells, 14 Reports.

MB-OSHP-2018/2



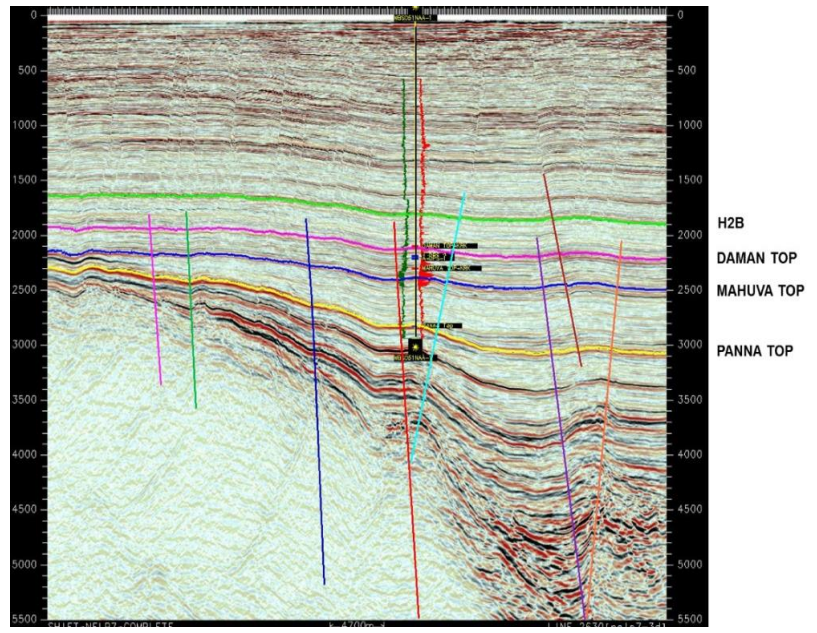
- Hydrocarbons are established in B-170, B-66, South Bassein, North Heera and Heera fields.
- Prospects in Panna and Bassein Formation. Hydrocarbon indications are reported from Alibag and Bombay formations.
- Target Depth: 1,200 m (1600-2200-DDR)
- Approximate Area 4,668 Sq. Km.
- Datasets: 2D Seismic, 3D seismic, 12 Wells, 21 Reports.

Mumbai Offshore Basin



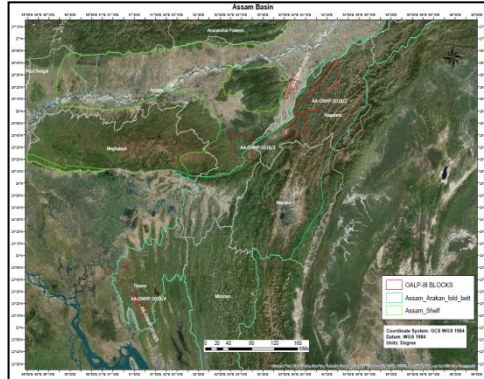
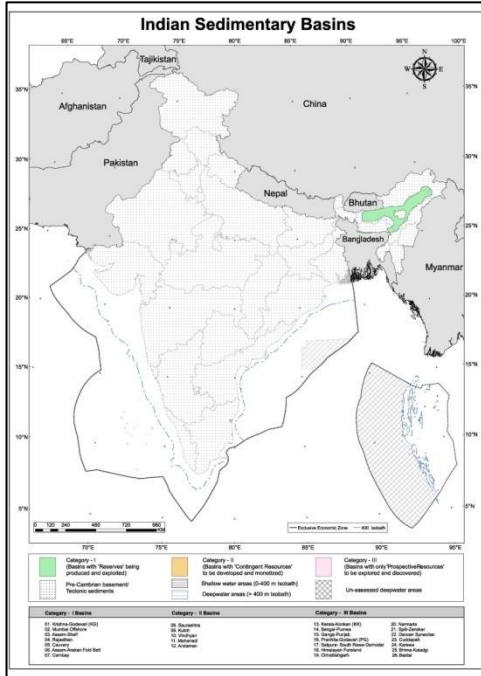
- **Discovery in Damansha**
- **Gas @ 32 k m3/d (Choke: 1/2")**
- **Formation: Damansha (U. Oligocene)**
- **Depth: ~2515-2526m**

- **Discovery in Damansha**
- **Gas @ 42 k m3/d (Choke: 1/2")**
- **Formation: Damansha (U. Oligocene)**
- **Depth: ~2549-2555m**



Recent Discovery in Damansha-Diu

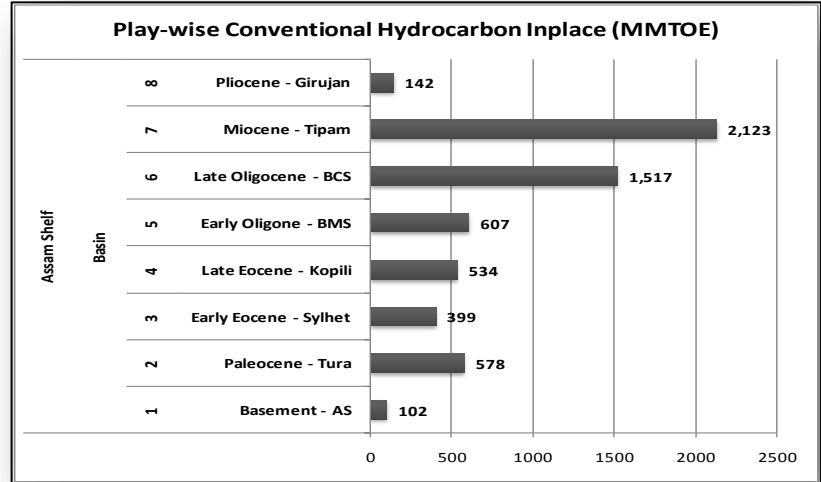
Assam Shelf



AA-ONHP-2018/1

AA-ONHP-2018/2

AA-ONHP-2018/3

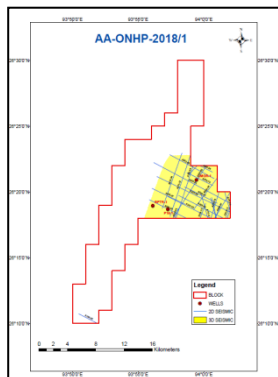


Prognosticated Resources (In-place MMTOE)		
Discovered	Undiscovered	Total
1868	4133	6001

- Blocks-on-offer: 3
- Cumulative area: 4,010 sq km

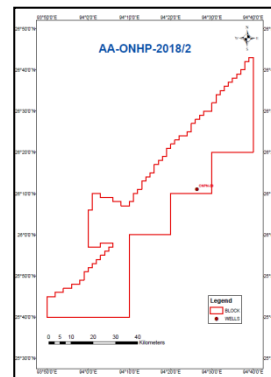
Assam Shelf

AA-ONHP-2018/1



- ❑ Hydrocarbons are established from areas of Lakhbari East, Hazarigaon, Kalanpur and Suphyam (Bokabil formation).
- ❑ Potential exists within Tura, Sylhet, Kopili and Barail, including Gondwana rift fill sequences .
- ❑ Target Depth: 1,500 m.
- ❑ Approximate Area 249 Sq. Km.
- ❑ Datasets: 2 D Seismic,3D Seismic, 3 Wells, 3 reports.

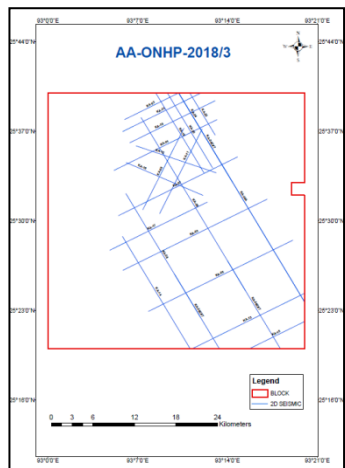
AA-ONHP-2018/2



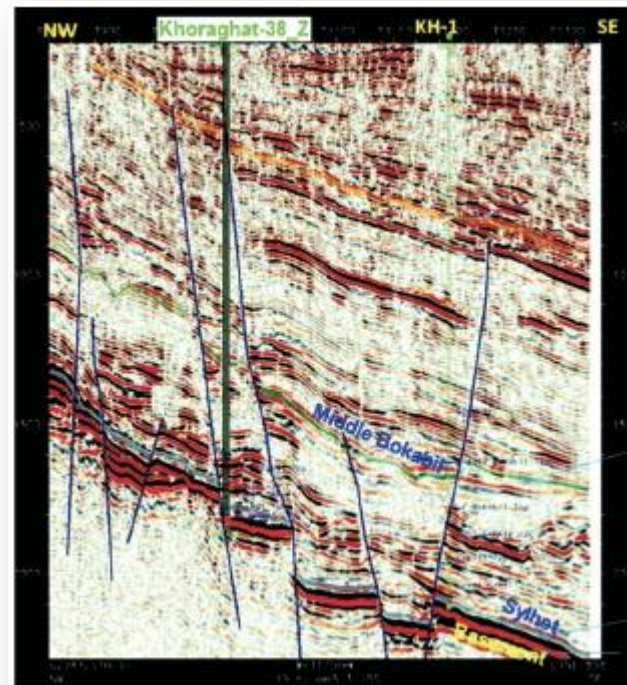
- ❑ Located over thrust-related anticlines in the Naga-Schuppen belt, well known for hydrocarbon sources.
- ❑ Hydrocarbon potential exists within Eocene-Paleocene Formation.
- ❑ Target Depth: 1,500 m.
- ❑ Approximate Area 2,527 Sq. Km.
- ❑ Datasets: No Seismic data (adjacent 2D seismic data of Hakejanaga- Chumuked area), 1 Well, 2 Reports.

Assam Shelf

AA-ONHP-2018/3

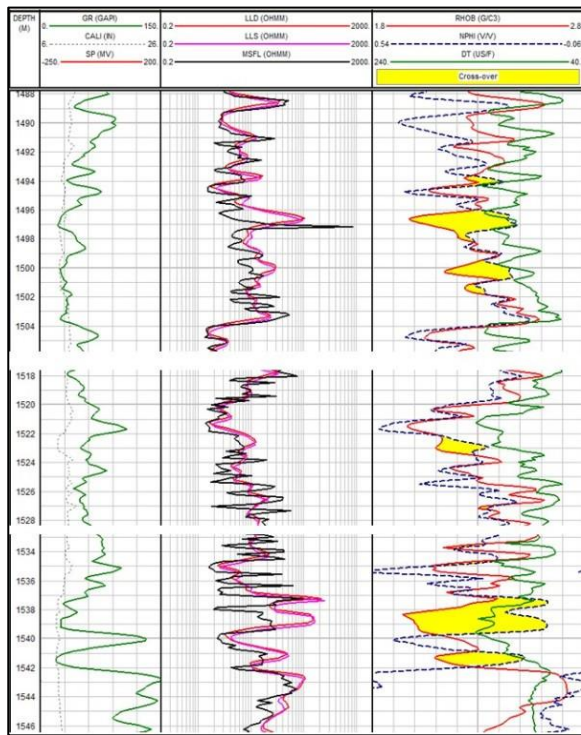


- ❑ Located in similar geologic/geological set-up with nearby fields like Khoraghat and Nambar.
- ❑ Hydrocarbon potential exists within Palaeocene-to-Lower Eocene section (Tura/Sylhet) and Oligocene (Barail).
- ❑ Target Depth: 2,000 m.
- ❑ Approximate Area 1,234 Sq. Km.
- ❑ Datasets: 2D Seismic, (adjacent well data of TNPH-1, RJPH-1).

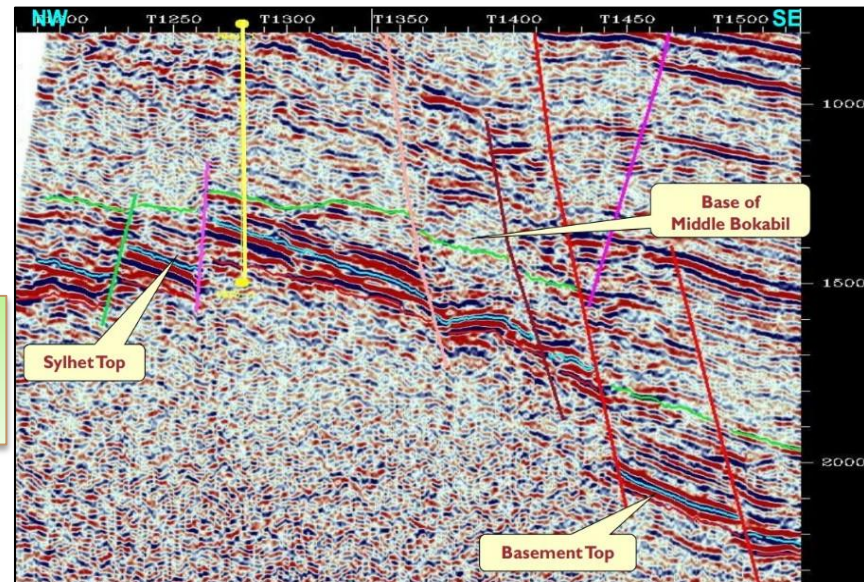


Recent Discovery Khoraghat

Assam Shelf

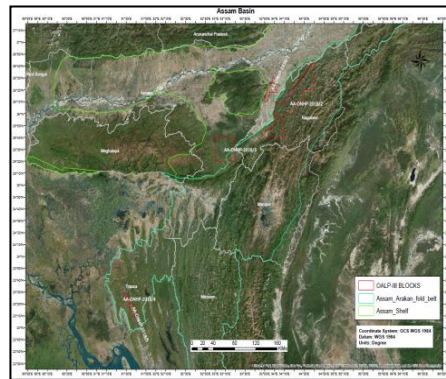
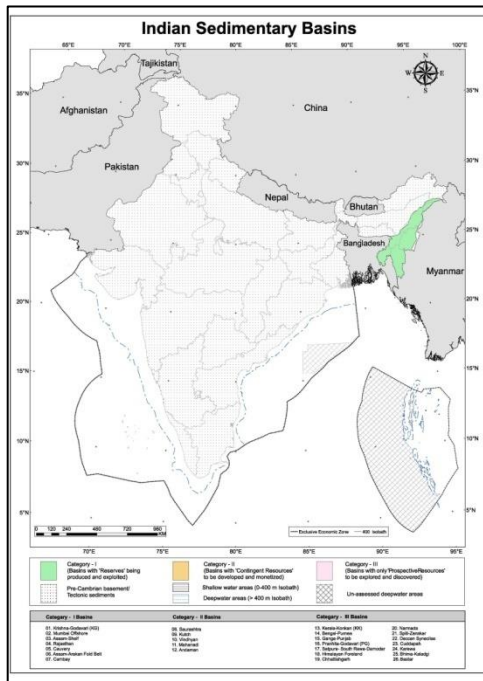


- Discovery in Basal Sandstone & Sylhet
- Flowed Gas
- Depth-1493-1542



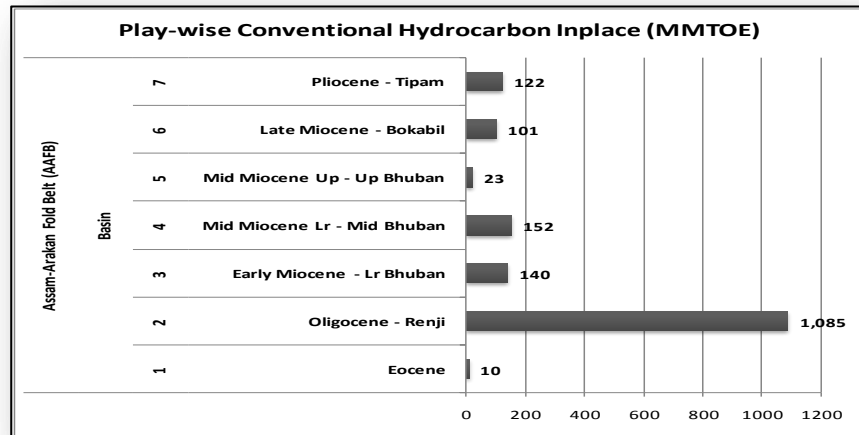
Discovery in Hazarigaon

Assam-Arakan Fold Belt Basin



AA-ONHP-2018/5

AA-ONHP-2018/4

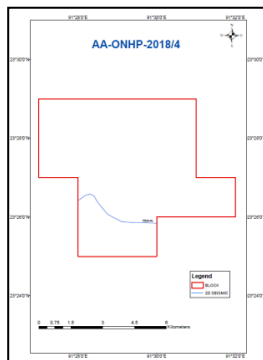


Prognosticated Resources (In-place MMTOE)		
Discovered	Undiscovered	Total
178	1,455	1,633

- Blocks-on-offer: 2
- Cumulative area: 252 sq km

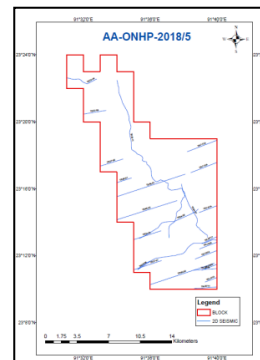
Assam-Arakan Fold Belt Basin

AA-ONHP-2018/4



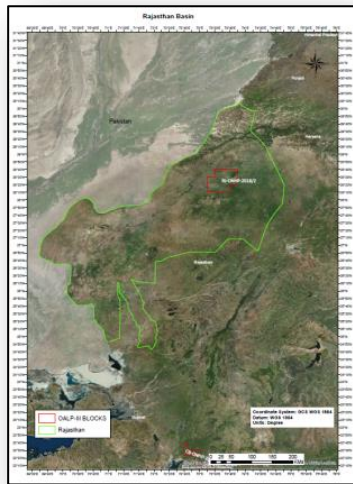
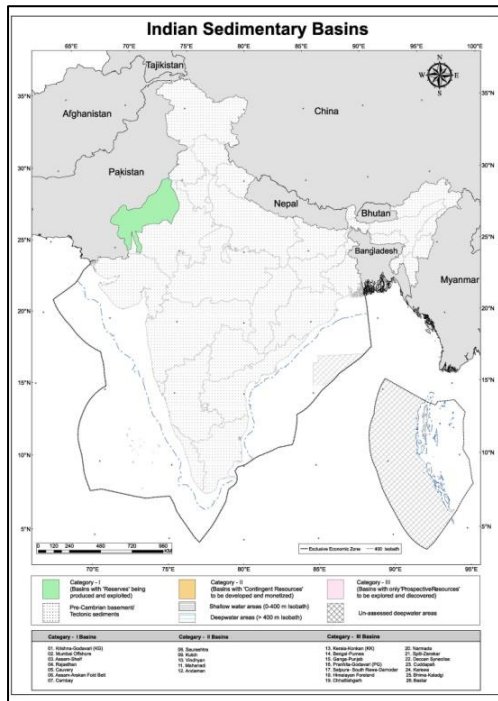
- ❑ The region has established petroleum system with likely gaseous hydrocarbon over oil.
- ❑ Prospectivity is identified in Bokabil, Upper Bhuban, Middle Bhuban and Miocene of Surma Group, with Jenam-Bhuban-Bokabil petroleum system.
- ❑ Target Depth: 3,000 m.
- ❑ Approximate Area 44 Sq. Km.
- ❑ Datasets: 2D Seismic, (adjacent well data of GJLA-10, 11, 12, 13)

AA-ONHP-2018/5

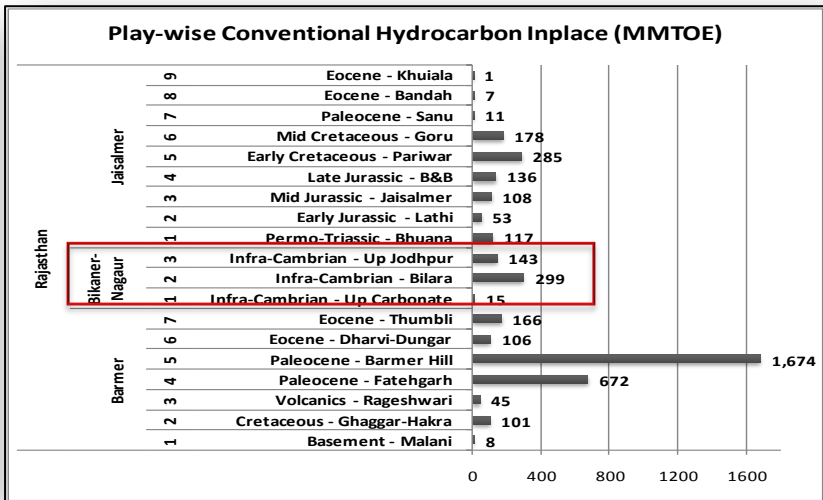


- ❑ The region has established petroleum system with likely gaseous hydrocarbon over oil.
- ❑ Prospectivity lies within Bokabil, Upper Bhuban, multi-stacked sandstones of Middle Bhuban, all confined into Oligocene –to-Middle Miocene sequences.
- ❑ Target Depth: 2,500 m.
- ❑ Approximate Area 208 Sq. Km.
- ❑ Datasets: 2D Seismic, (adjacent well data of GJLA-10, 11, 12, 13)

Rajasthan (Bikaner-Nagaur Sub-basin)



RJ-ONHP-2018/2

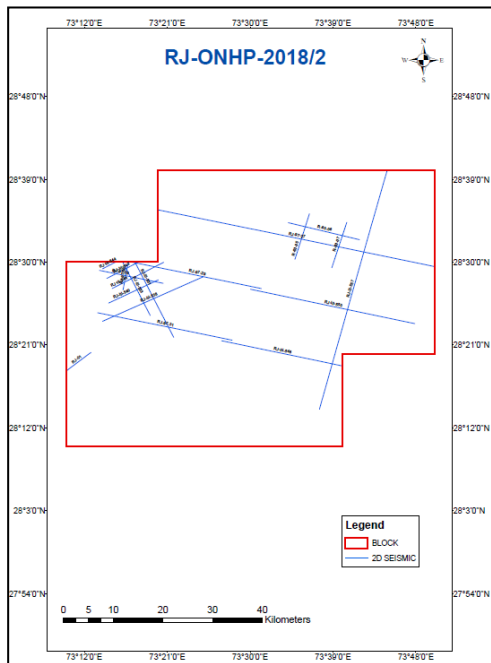


Prognosticated Resources (In-place MMTOE)

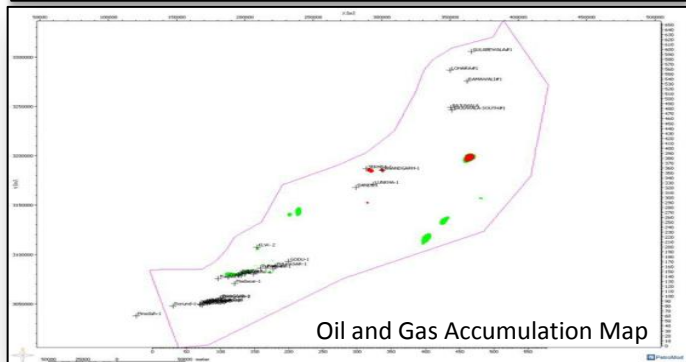
Discovered	Undiscovered	Total
15	443	458

- Block-on-offer: 1
- Cumulative area: 3,016 sq km

Rajasthan(Bikaner-Nagaur Sub-basin)

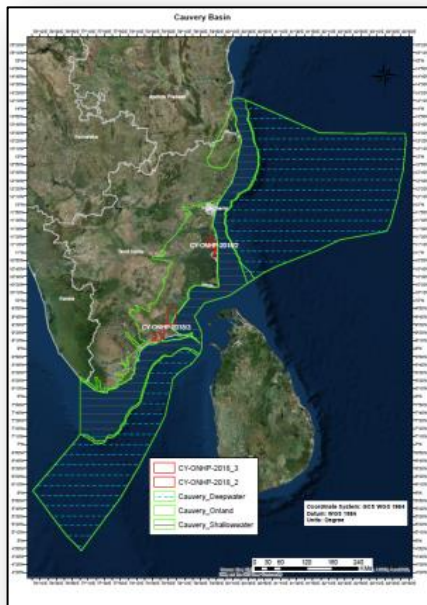
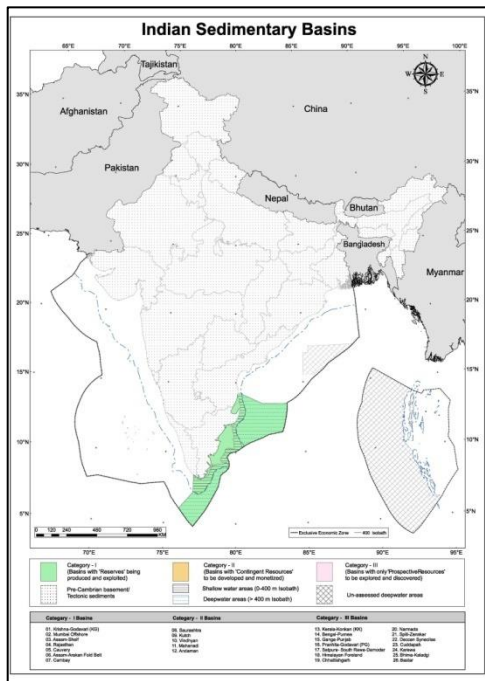


- RJ-ONHP-2018/2**
- Prospectivity lies in Jodhpur Formation and Shallower Upper Carbonate Formation
 - Jodhpur Formation has established hydrocarbon (Baghewala heavy oil discovery)
 - Target Depth: 900 m.
 - Approximate Area 3,016 Sq. Km.
 - Datasets: 2D Seismic, No wells (adjacent wells of Baghewala, Nanuwala)



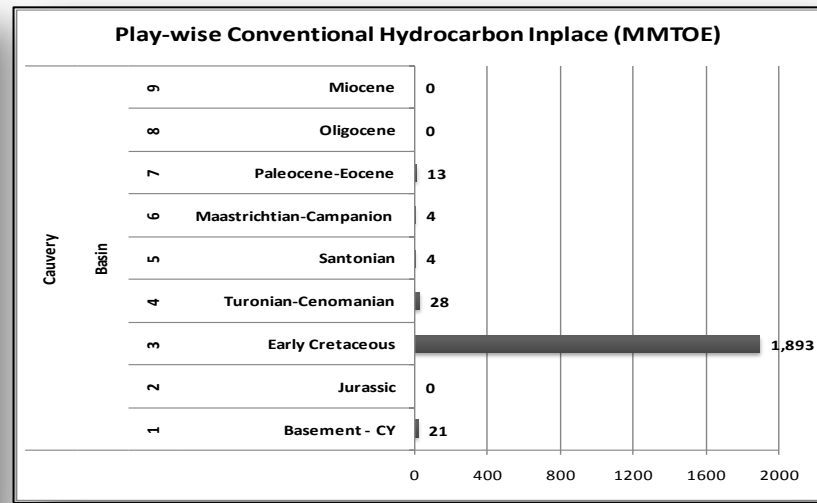
Ma	Age	Punjab Platform	Bikaner-Nagaur	Petroleum System Elements		
				Source Rock	Reservoir	Seal
50	Cretaceous	Siwalki Gp Narai Gp	Mar Joggira Marh Palana			
100		Gurur/Lamshiwali Sembhar				
150	Jurassic	Samana Suk Shinawari/Dotta	Bap & Badhura			
200		Kingriali/ Wulgal				
250	Triassic	Amb/Warchai/Sardai Dandot/Tobra				
300						
350	Permian					
400						
450	Carboniferous					
500						
550	Cambrian	Kursak Kheera	Jutana			
600						
650	Salt Range Group	UP Carbonate Gp				
700		Nagaur Gp Hanseran Evaporite Bikan Gp Jodhpur				
750	BASEMENT					

Cauvery Basin



CY-ONHP-2018/2

CY-ONHP-2018/3



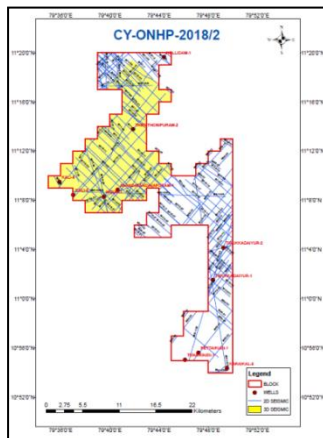
Prognosticated Resources (In-place MMTOE)

Discovered	Undiscovered	Total
292	1,672	1,964

- Blocks-on-offer: 2
- Cumulative area: 1,863 sq km

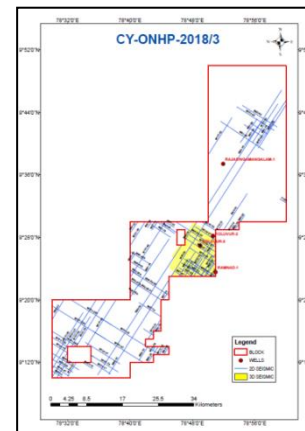
Cauvery Basin

CY-ONHP-2018/2



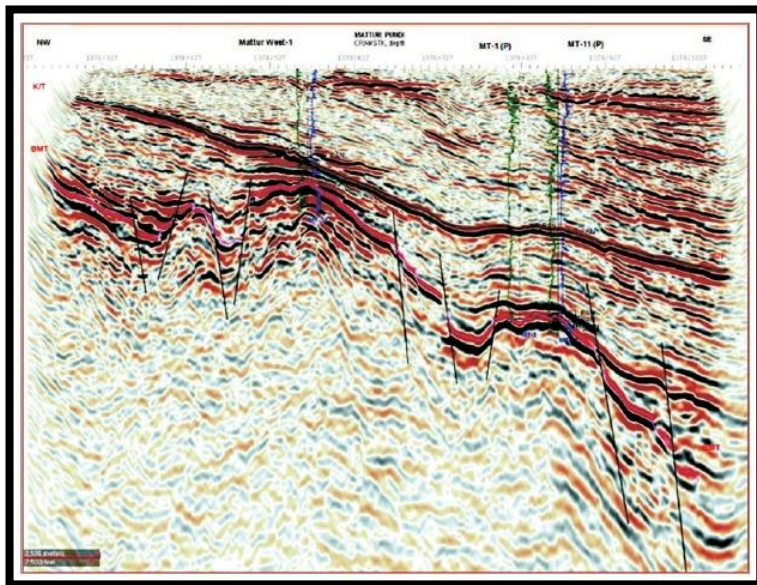
- ❑ Commercial hydrocarbons are established in fractured gneissic basement in Madanam and Pandanallur.
- ❑ Potential in Basement play and Nannilam sands.
- ❑ Target Depth: 3,000 m.
- ❑ Approximate Area 460 Sq. Km.
- ❑ Datasets: 3D Seismic ,2D Seismic,11 Wells, 18 Reports.

CY-ONHP-2018/3

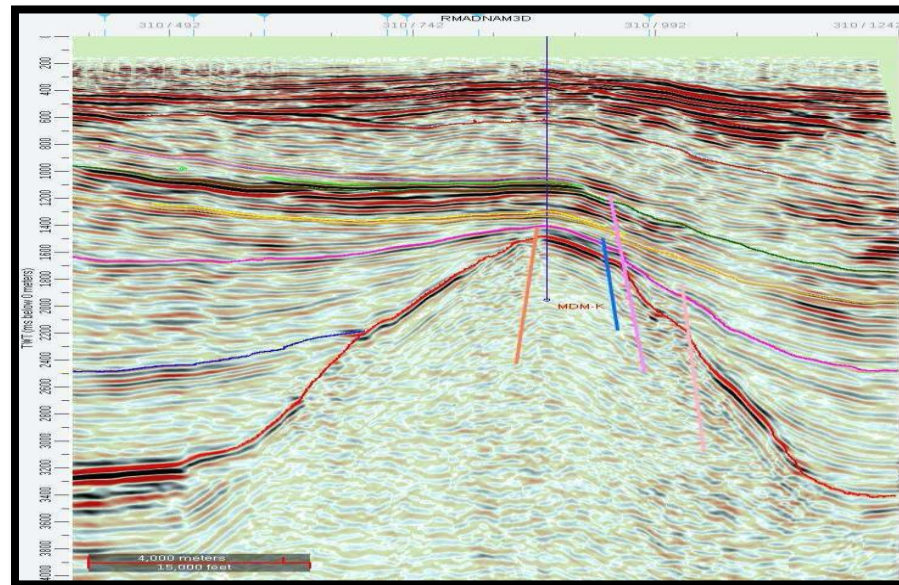


- ❑ Significant production is achieved in Ramnad sub-basin from the Nannilam and Bhuvanagiri formations.
- ❑ Potential in Andimadam, Bhuvanagiri and Nannilam formations.
- ❑ Target Depth: 1,800 m.
- ❑ Approximate Area 1,403 Sq. Km.
- ❑ Datasets: 2D Seismic, 3D Seismic, 5 Wells, 10 Reports.

Cauvery Basin

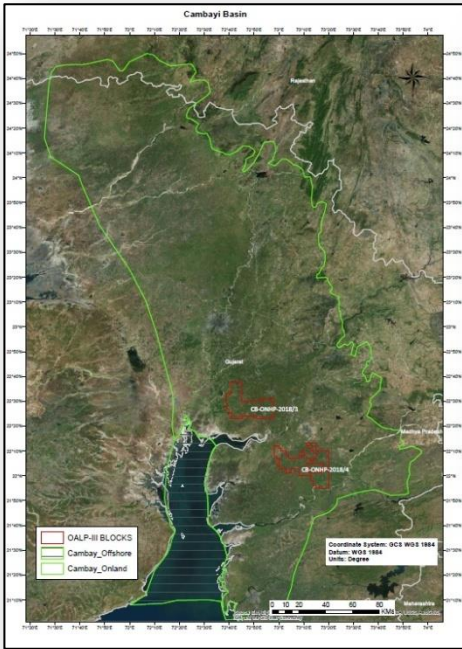
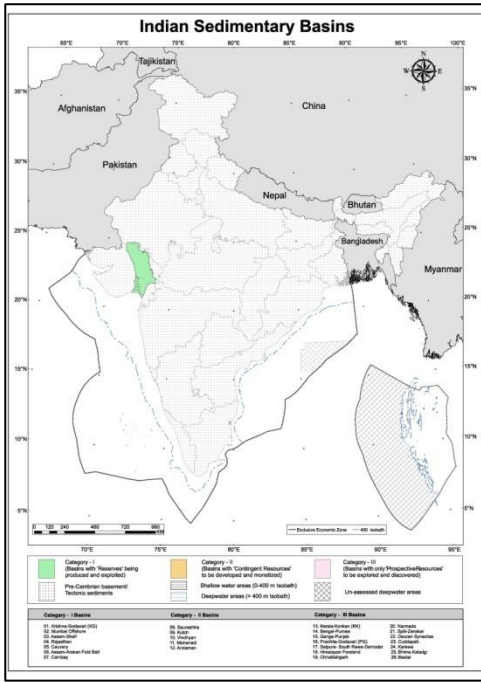


Discovery Matur West-1 in Cauvery Basin



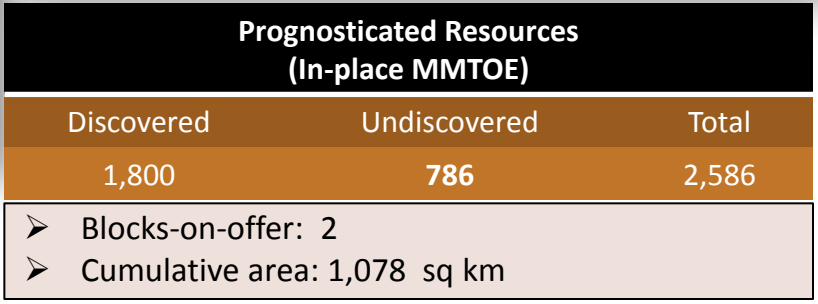
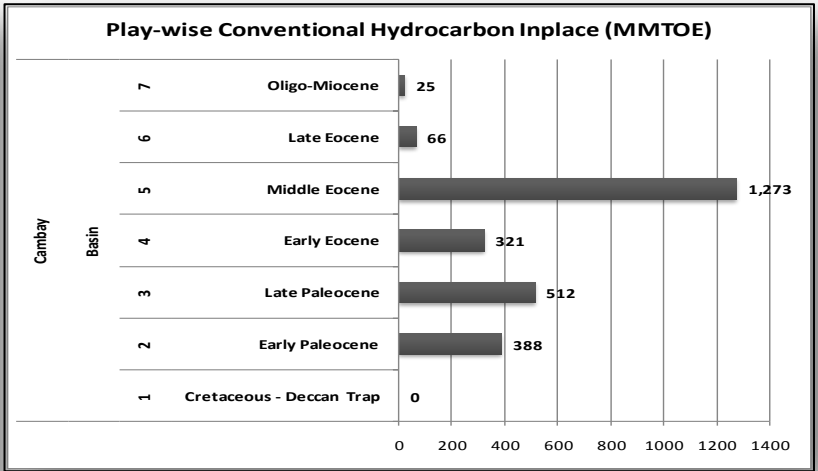
- Discovery in Madnam
- Gas @ 40k+ SCMD (Choke: 5mm)
- Formation: Kamalapuram (Eocene)
- Depth: ~1,500m

Cambay Basin



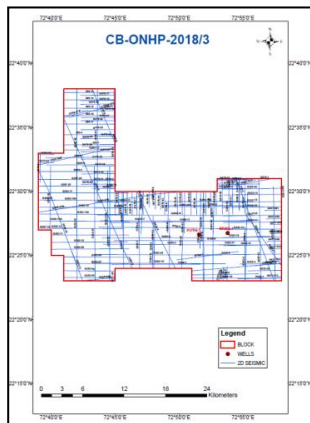
CB-ONHP-2018/3

CB-ONHP-2018/4

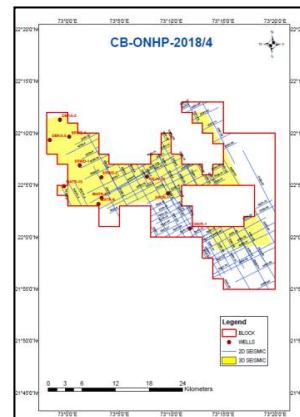


Cambay Basin

CB-ONHP-2018/3



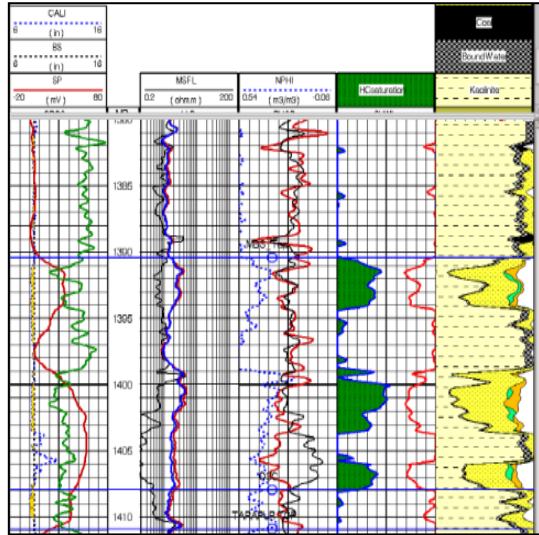
CB-ONHP-2018/4



- ❑ Situated in northeast of Cambay field in Tarapur block.
- ❑ Multiple leads identified at Kalol and Cambay shale level.
- ❑ Target Depth : 1,500m.
- ❑ Approximate Area: 519 Sq. Km.
- ❑ 2D seismic, 2 wells, 4 Reports

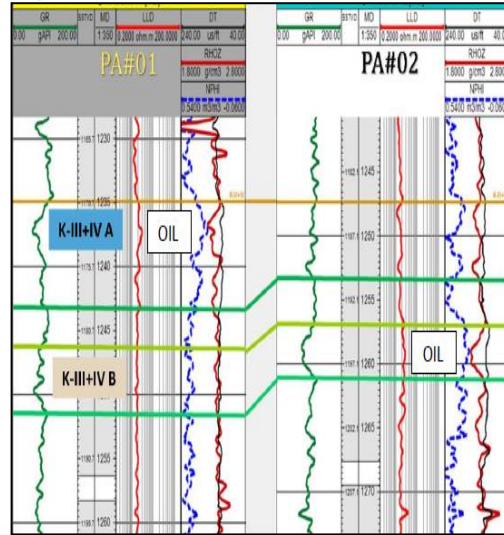
- ❑ Situated in south of Padra field in eastern basin margin.
- ❑ Multiple leads identified at Kalol and Basement level.
- ❑ Target Depth : 1,000m.
- ❑ Approximate Area: 559 Sq. Km.
- ❑ 2D and 3D seismic, 11 wells, 20 reports

Cambay Basin



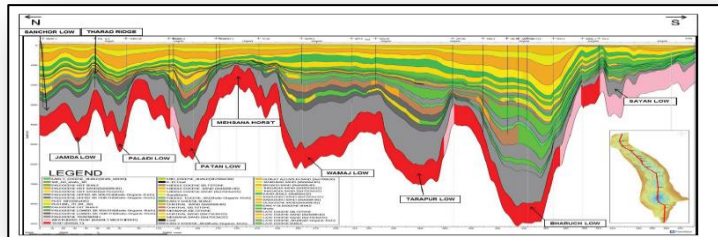
Miocene Basal Sands (MBS)

- Oil discovery
- Oil @ 200+ BOPD, 5mm bean
- Southern part (Akhholjuni area)
- Depth: ~1,450m

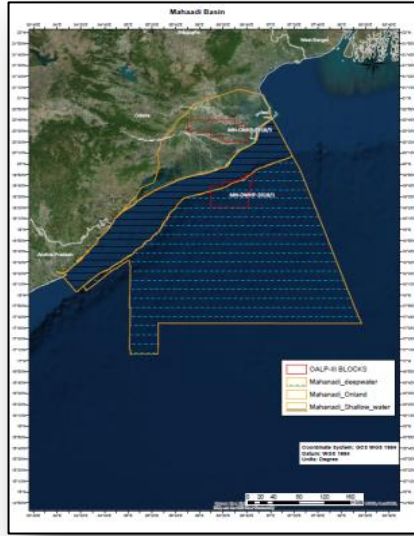
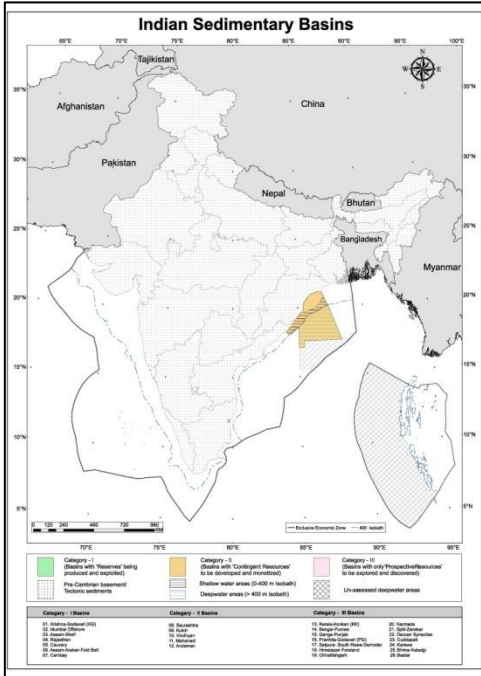


K-III/K-IV

- Oil discovery
- Oil @ 25+ BOPD, 12/64" bean
- Eastern margin (Dehgam area)
- Depth: ~1,250m

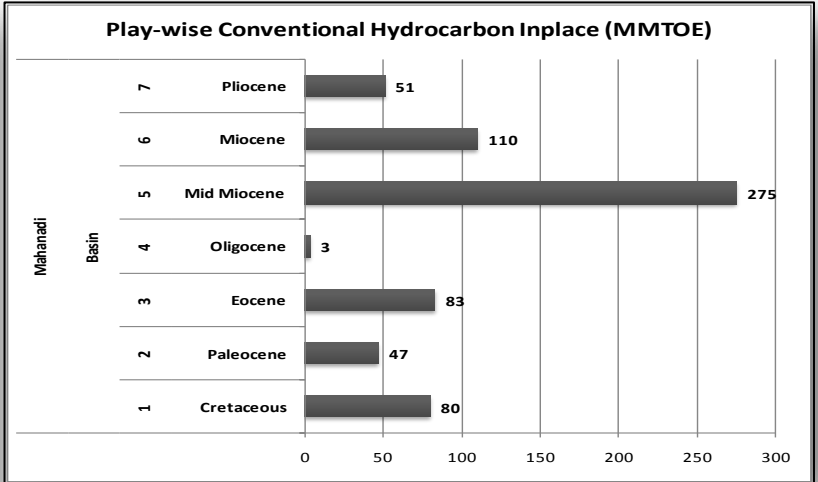


Mahanadi Basin



MN-DWHP-2018/1

MN-ONHP-2018/5



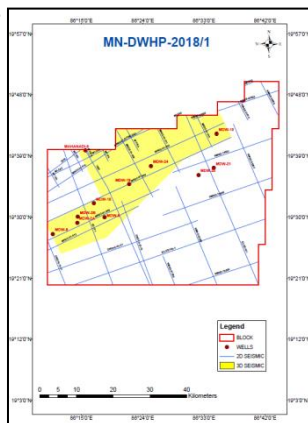
Prognosticated Resources (In-place MMTOE)

Resource Type	Discovered	Undiscovered	Total
Total	77	574	651

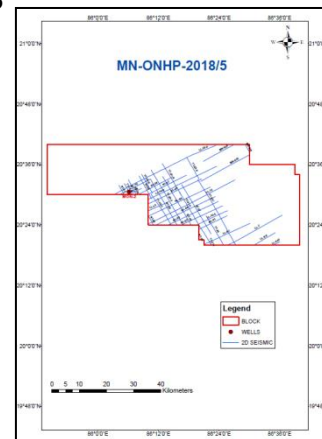
- Blocks-on-offer: 2
- Area: 4,791 sq km

Mahanadi Basin

MN-DWHP-2018/1



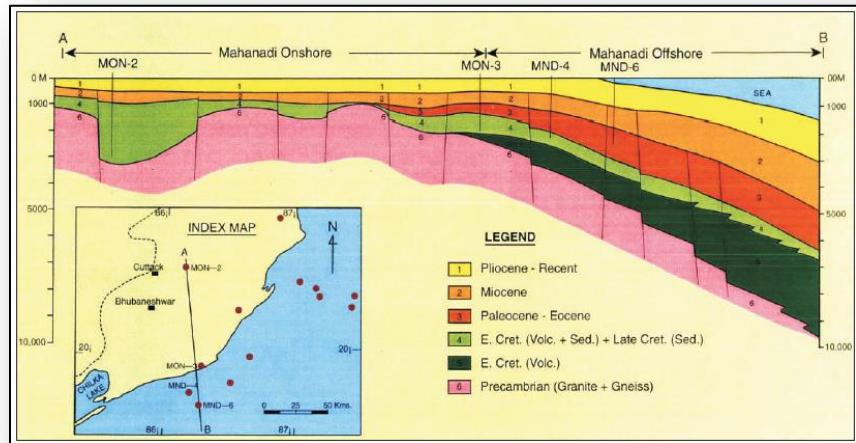
MN-ONHP-2018/5



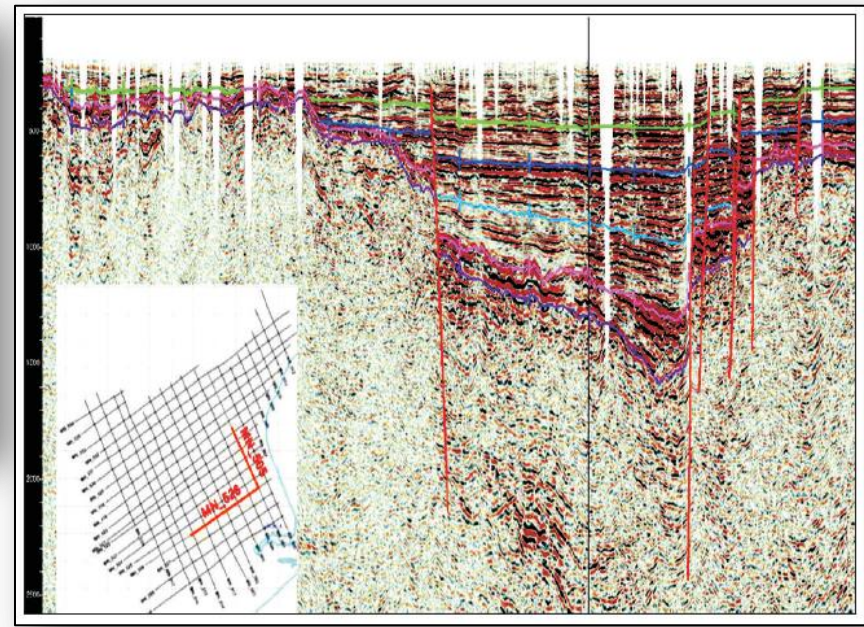
- ❑ Gas discoveries were made in the surrounding blocks in shallow and deepwater (MN-OSN 2000/2 and MN-DWN-98/3).
- ❑ 4 plays identified – one structural (Pliocene rollover anticline) and the rest stratigraphic (Mio-Pliocene channels/ slope fans).
- ❑ Target Depth for wells: 2,750m .
- ❑ Approximate Area: 2,491 Sq. Km.
- ❑ 2D/3D seismic data, 11 wells, 23 reports.

- ❑ Surrounded by OALP-II blocks-on-offer.
- ❑ Prospectivity inferred from drilled well, MON-2 which established rich source rock potential of Early Cretaceous age.
- ❑ Target Depth for wells: 2,500m.
- ❑ Approximate Area: 2,300 Sq. Km.
- ❑ 2D seismic data, 1 well and 1 Report.

Mahanadi Basin

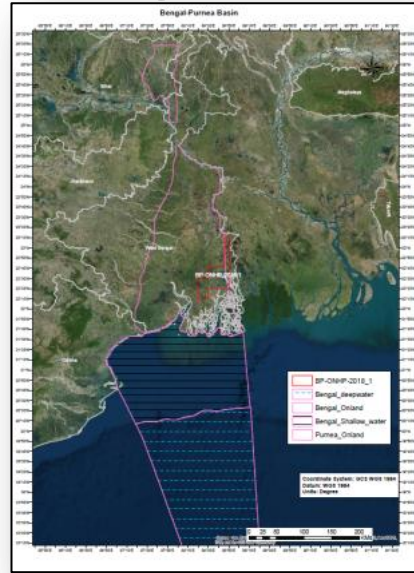
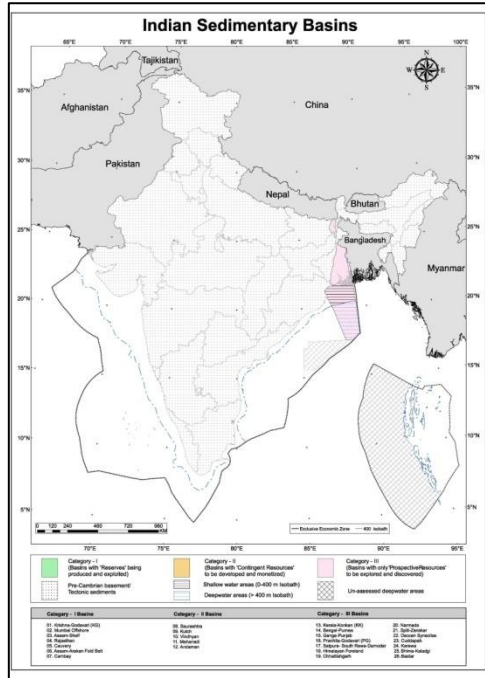


Schematic geological section across Mahanadi Basin

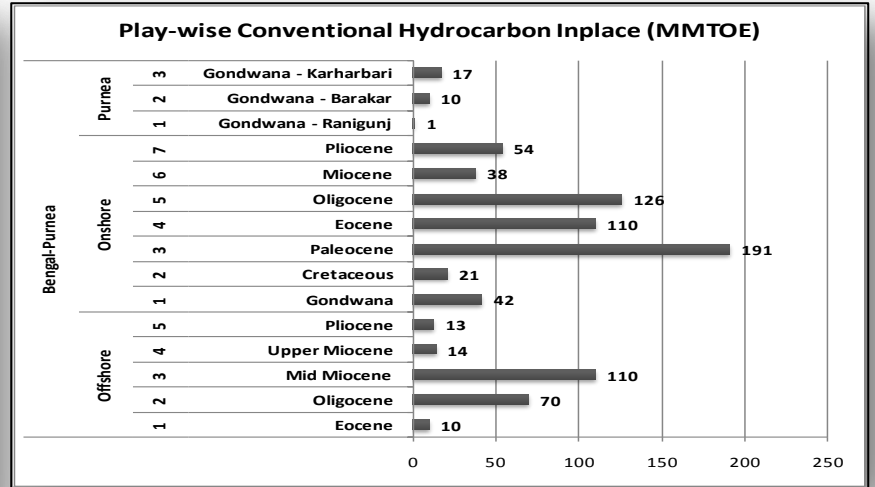


2D seismic sections from recently acquired data of NSP

Bengal-Purnea Basin



BP-ONHP-2018/1

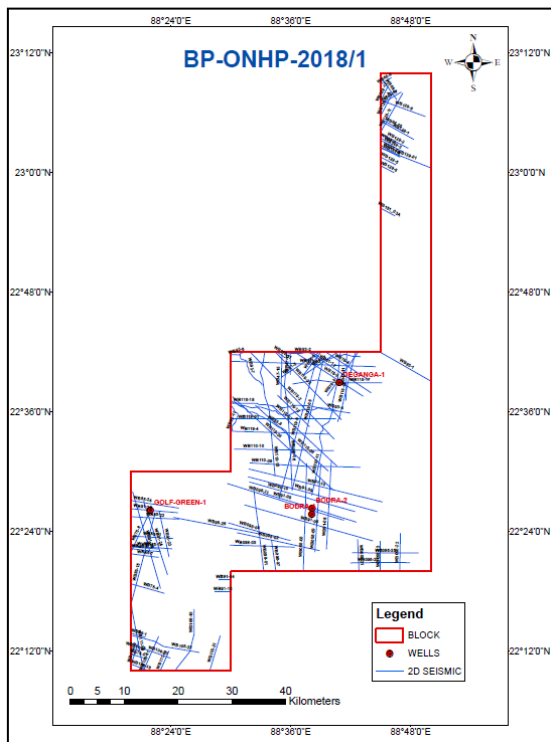


Prognosticated Resources (In-place MMTOE)

Discovered	Undiscovered	Total
0	828	828

- Block-on-offer: 1
- Area: 2,468 sq km

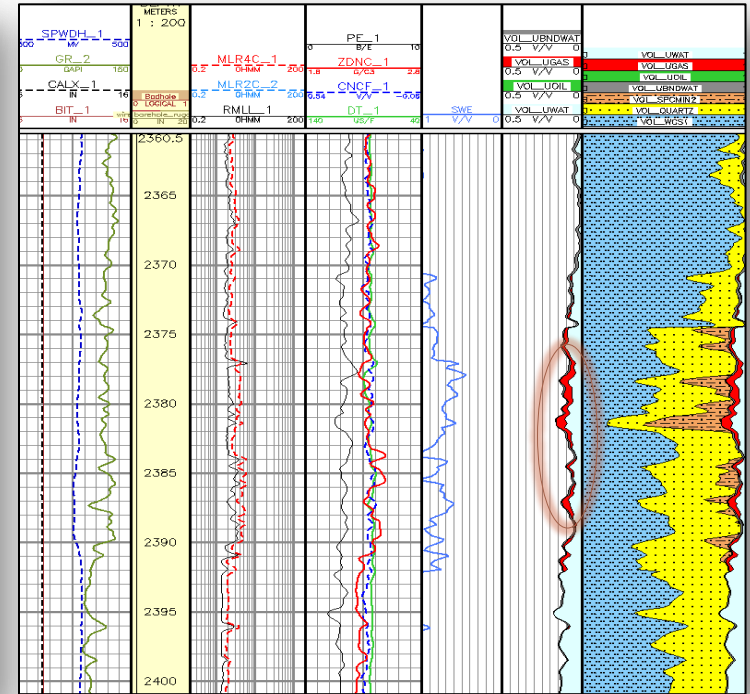
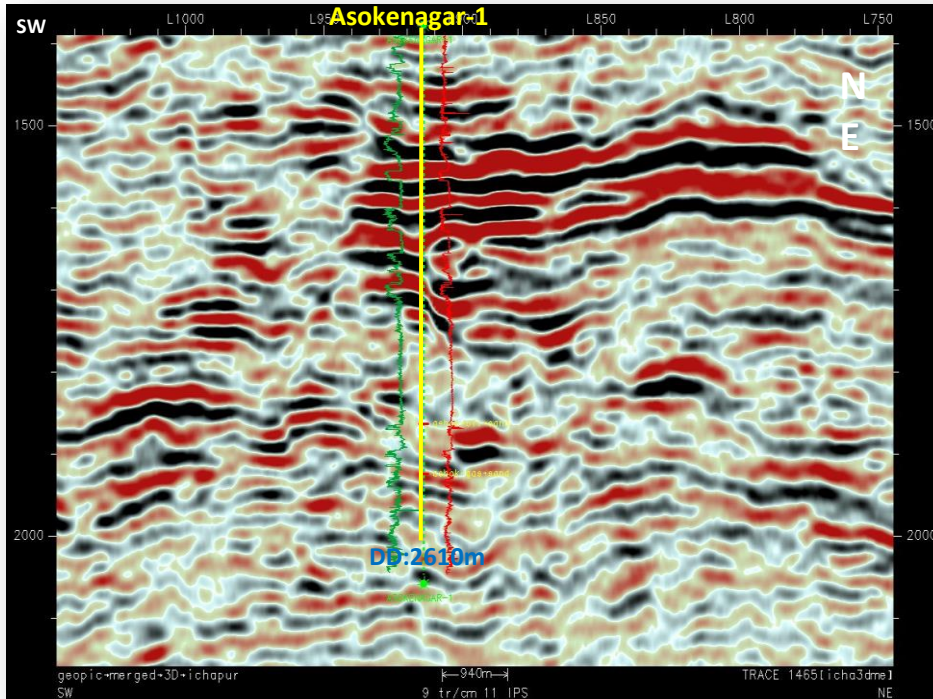
Bengal-Purnea Basin



BP-ONHP-2018/1

- Located over similar petroleum habitat of the recent oil and gas discovery well, Ashoknagar-1 (NELP Block WB-ONN-2005/4)
- Inferred the presence of Mio-Pliocene channel-levee-complex with thermogenic hydrocarbon, charged from underlying Paleogene source rocks
- 2 plays are identified: 'Thermogenic' hydrocarbon in Lower Pliocene-Miocene sequence and 'Biogenic' from Upper Pliocene sequence
- Target Depth for wells: 2,500m
- Approximate Area: 2,468 Sq. Km.
- Datasets: 2D seismic, 4 wells and 6 reports

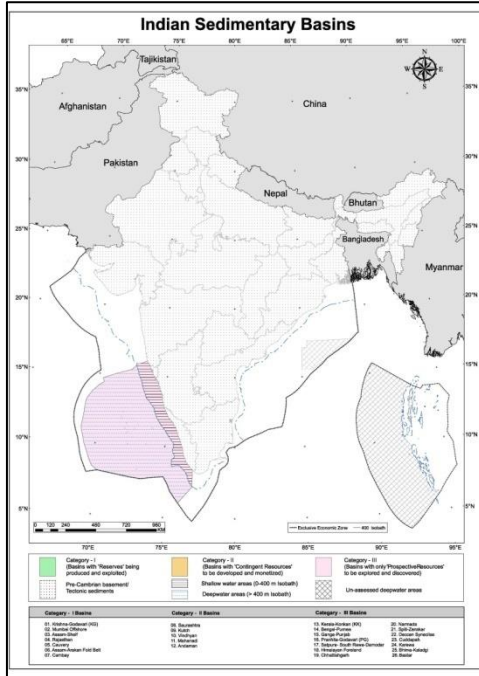
Bengal-Purnea Basin



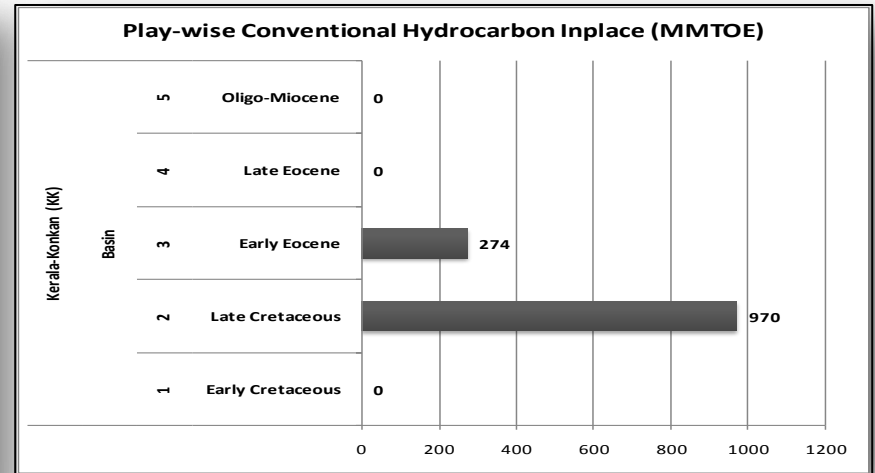
Recent discovery at well, Ashokenagar-1 in onland part of Bengal-Purnea Basin

- Notified gas discovery in Upper Miocene Object-I (2,377-88m)
- Flowed gas 73k SCMD through 6 mm bean

Kerala-Konkan Basin



KK-OSHP-2018/1



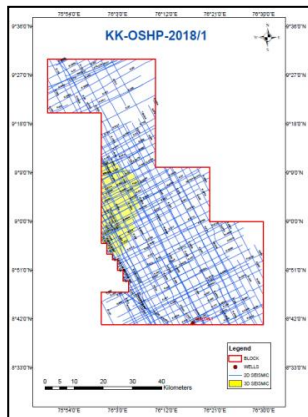
Prognosticated Resources (In-place MMTOE)

Discovered	Undiscovered	Total
0	1,245	1245

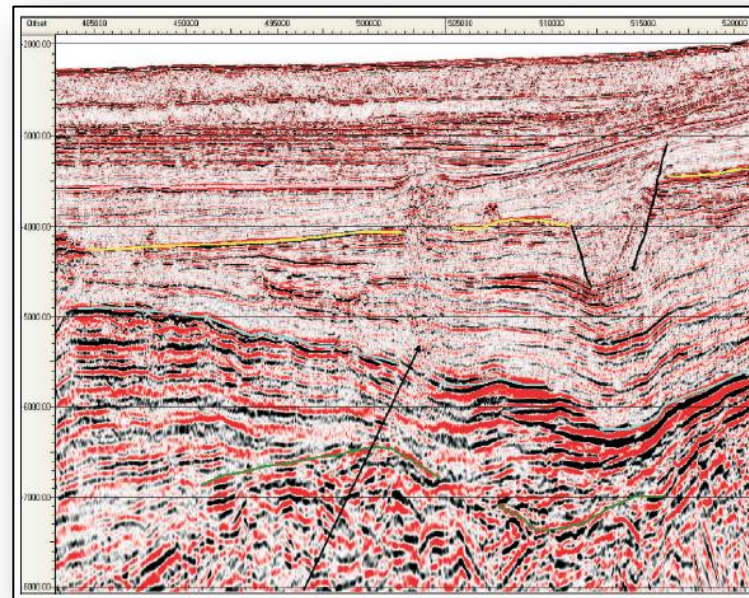
- Block-on-offer: 1
- Area: 3,520 sq km

Kerala-Konkan Basin

KK-OSHP-2018/1

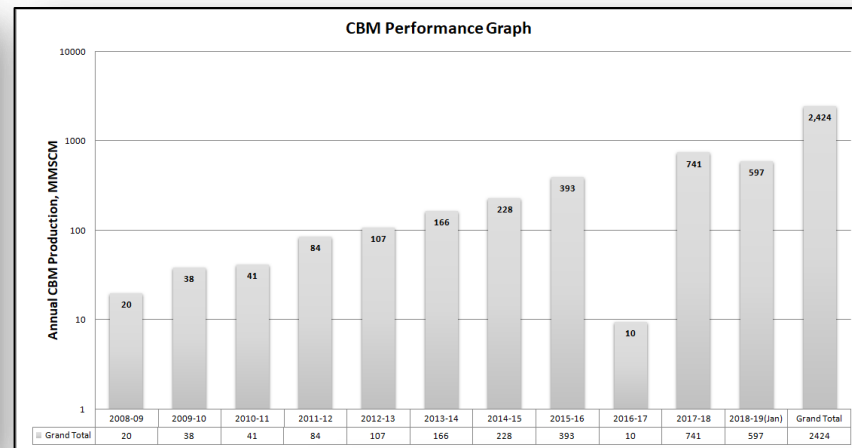
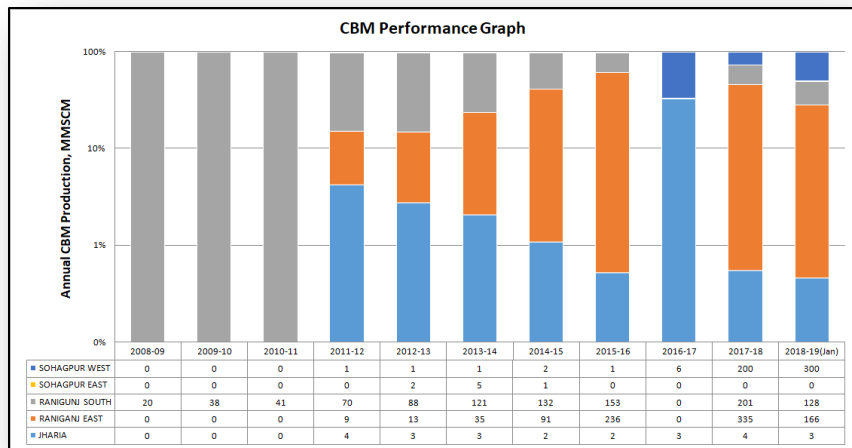


- ❑ Prospective petroleum systems are identified in Mesozoic-Mesozoic, Mesozoic-Tertiary and Tertiary-Tertiary.
- ❑ Target Depth for wells: 2,000m.
- ❑ Approximate Area: 3,520 Sq. Km.
- ❑ Datasets: 2D/3D seismic.



West-East seismic section in Kerala-Konkan Area

CBM Operation and Production

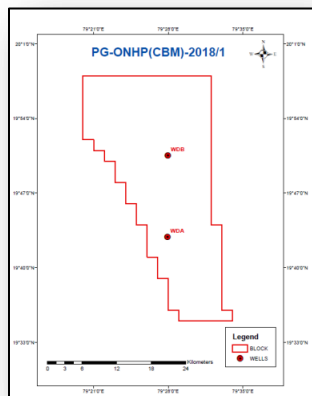


- Globally, India has 4th largest coal reserves. CBM resources of 2,600 BCM
- CBM activity is covered under Oil Fields Regulation & Development Act (1948), P&NG Rules (1959) and CBM Policy(1997)
- 33 blocks were awarded in 4 rounds for 63% of 26,000 sq km available coal-bearing acreage across 11 states with prognosticated resources of 1,800 BCM, of which established is 281 BCM
- Production from 5 blocks, Raniganj(South & East), Sohagpur(West & East), Jharia

CBM Production Performance for the month of Jan.'19				
Block	Area (Sq Km)	Gas (MMSCM)	Flowing Wells	Nature of Flow
JHARIA	85	0.45	7	Artificial Lift
RANIGANJ EAST	500	17.49	150	Artificial Lift
RANIGUNJ SOUTH	210	13.28	103	Self flow by 12 wells and 91 wells are on artificial lift
SOHAGPUR EAST	495	0	5	Self Flow
SOHAGPUR WEST	500	30.92	220	Self Flow
All Blocks	1,790	62.15	485	

Pranhita-Godavari Basin

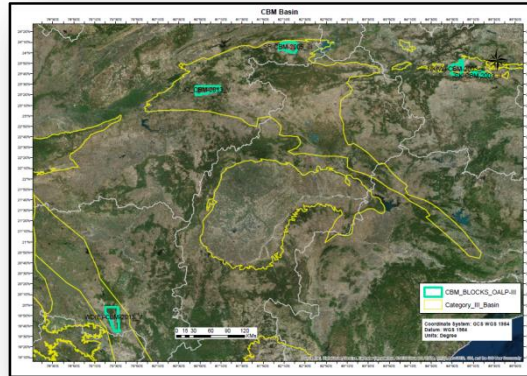
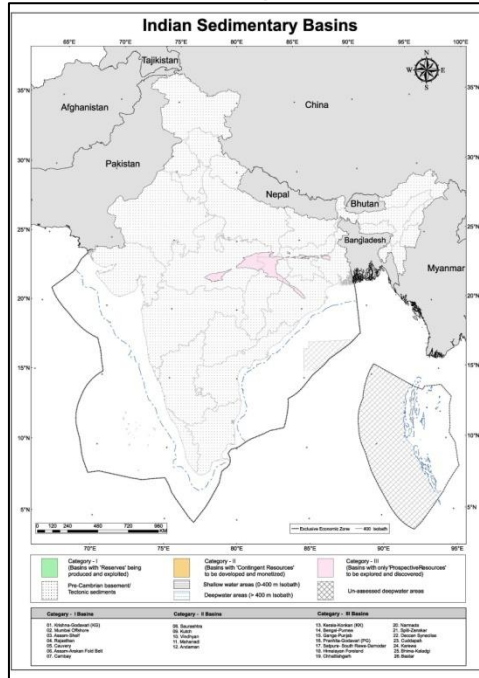
PG-ONHP(CBM)-2018/1



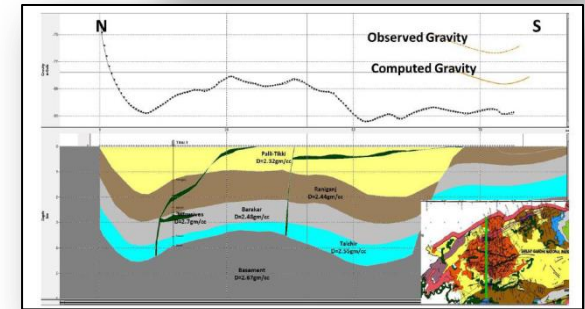
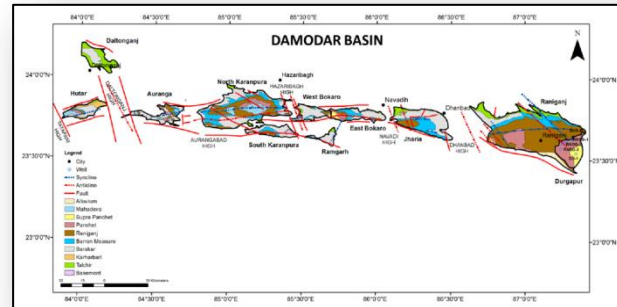
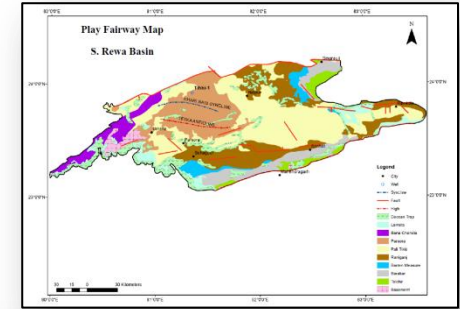
- ❑ The carved-out block is located in the eastern part of Wardha Valley Coal Field.
- ❑ The block has logistic advantage due to well-developed infrastructure facility and proximity to power plants.
- ❑ Barakar Formation (Lower Permian) is the coal-bearing unit, containing one thick composite coal horizon.
- ❑ Target Depth: 1,200m.
- ❑ Approximate Area 625 Sq. Km.
- ❑ Datasets: 2 wells, 1 report.

AGE	FORMATION	LITHOLOGY	MAXIMUM THICKNESS (m)
UP. CRETACEOUS TO EOCENE	DECCAN TRAP		100
CRETACEOUS	LAMETA		50
UPPER TRIASSIC	MALERI		100
UPPER PERMIAN TO LOWER TRIASSIC	KAMTHI		800
MIDDLE PERMIAN	MOTUR		300
LOWER PERMIAN	BARAKAR		400
UPPER CARBONIFEROUS TO LOWER PERMIAN	TALCHIR		200
PROTEROZOIC	VINDHYAN		NOT ESTIMATED
ARCHAEAN	METAMORPHICS		

Satpura-South Rewa-Damodar Basin



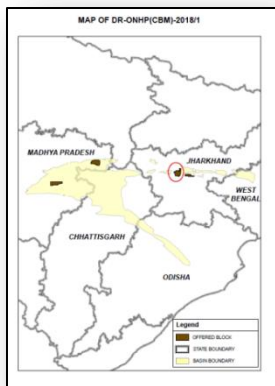
DR-ONHP(CBM)-2018/1
 DR-ONHP(CBM)-2018/2
 SR-ONHP(CBM)-2018/1
 SR-ONHP(CBM)-2018/2



➤ Blocks-on-offer: 4
 ➤ Cumulative area: 1,332 sq km

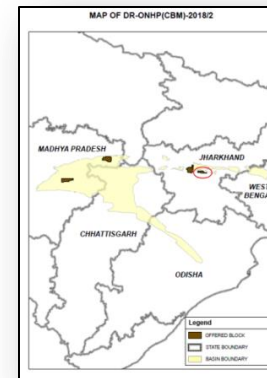
Satpura-South Rewa-Damodar Basin

DR-ONHP(CBM)-2018/1



- ❑ The carved-out block is in the north-northeastern part of North Karanpura coalfield of the Damodar Valley, Jharkhand.
- ❑ Lower Permian Barakar Formation is the coal bearing unit and crop out in the peripheral region of the ovate coalfield.
- ❑ Depth range: 0 to 300+ m.
- ❑ Approximate Area 348 Sq. Km.
- ❑ Datasets: 8 Wells, 1 Report

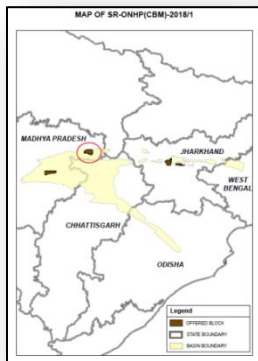
DR-ONHP(CBM)-2018/2



- ❑ The carved-out block lies in the southern part of South Karanpura Coalfield.
- ❑ Barakar Formation (L. Permian) is the coal bearing unit.
- ❑ Depth range: 0 to 480 m.
- ❑ Approximate Area 138 Sq. Km.
- ❑ Datasets: 13 Wells, 4 Reports

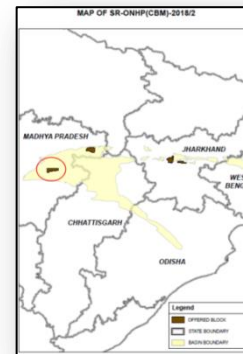
Satpura-South Rewa-Damodar Basin

SR-ONHP(CBM)-2018/1



- ❑ The carved-out block is located in the Singrauli Main Basin which is an part of South Rewa Basin containing Sohagpur-Johilla coalfields.
- ❑ Coal seams are confined to the upper part of the middle member of Barakar formation.
- ❑ Depth range: 300-800 m.
- ❑ Approximate Area 400 Sq. Km.
- ❑ Datasets: 2D Seismic (184 LKM), 8 Wells, 9 Reports.

SR-ONHP(CBM)-2018/2



- ❑ The carved-out block is located in the central part of the Johilla coalfield in Shahdol district of MP.
- ❑ Lower Gondwana rocks of Talchir, Barakars and beds of Raniganj are well-developed.
- ❑ Depth range: 0-1,200m.
- ❑ Approximate Area 446 Sq. Km.
- ❑ Datasets: 2D Seismic (16 LKM), 1 Well, 1 Report.

Brief of contract areas

- Contract blocks-on-offer: 23 Blocks (18 conventional + 5 CBM)
- Target basins: 12 including 2 for CBM only
- Prospectivity level: Category I (14), Category II (3), Category III (6)
- Acreage spread: Onland 19 + Shallow water 3 + Deepwater 1
- Total area on offer: 31,722 sq km (including 1,957 sq km of CBM Area)
- Individual area size: 44 to 4,668 sq km (CBM-138 to 625 sq km)
- Shallowest target depth: 900 m (Conventional only)
- Deepest target depth: 4,000 m (CBM-1200m)
- Datasets: Seismic, wells, reports including HC resources study

Opportunities to OALP bidders

- Contract areas are largely pre-assessed by prospective bidders
 - Information on block-level prospectivity outlined by originator through due diligence report
 - **Basin-specific Technical Booklets** are available online for constituent contract areas
- NDR has already set up the data rooms
 - **Industry-standard interpretation software** with full G&G functionality are available for basic interpretation
- Continued chance of access to NDR for more/misssed-out data
 - NDR is updated with new data continuously
 - **Basin-specific information on hydrocarbon resources are now available**
- NCR (“National Core Repository”) is now conceptualized on a global industry standard
 - **Access to Cores/ Drill-cuttings/ Fluid samples** is however available from across basins from NOC’s Core Labs, now declared National Asset



*Welcome to an opportunity ..
of exploring the 'undiscovered' potential of both
conventional and un-conventional hydrocarbons, under
two contract formats.. Leveraging fiscal benefits and
contractual simplicity..*