सत्यमेव जयते

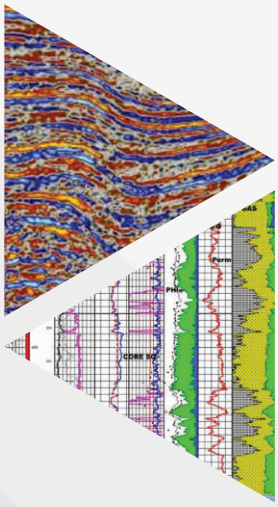
HYDROCARBON EXPLORATION
AND LICENSING POLICY

Ministry of Petroleum & Natural Gas
Government of India

GEOSCIENTIFIC INFORMATION

OF BLOCKS UNDER OALP BID ROUND-VI

2021



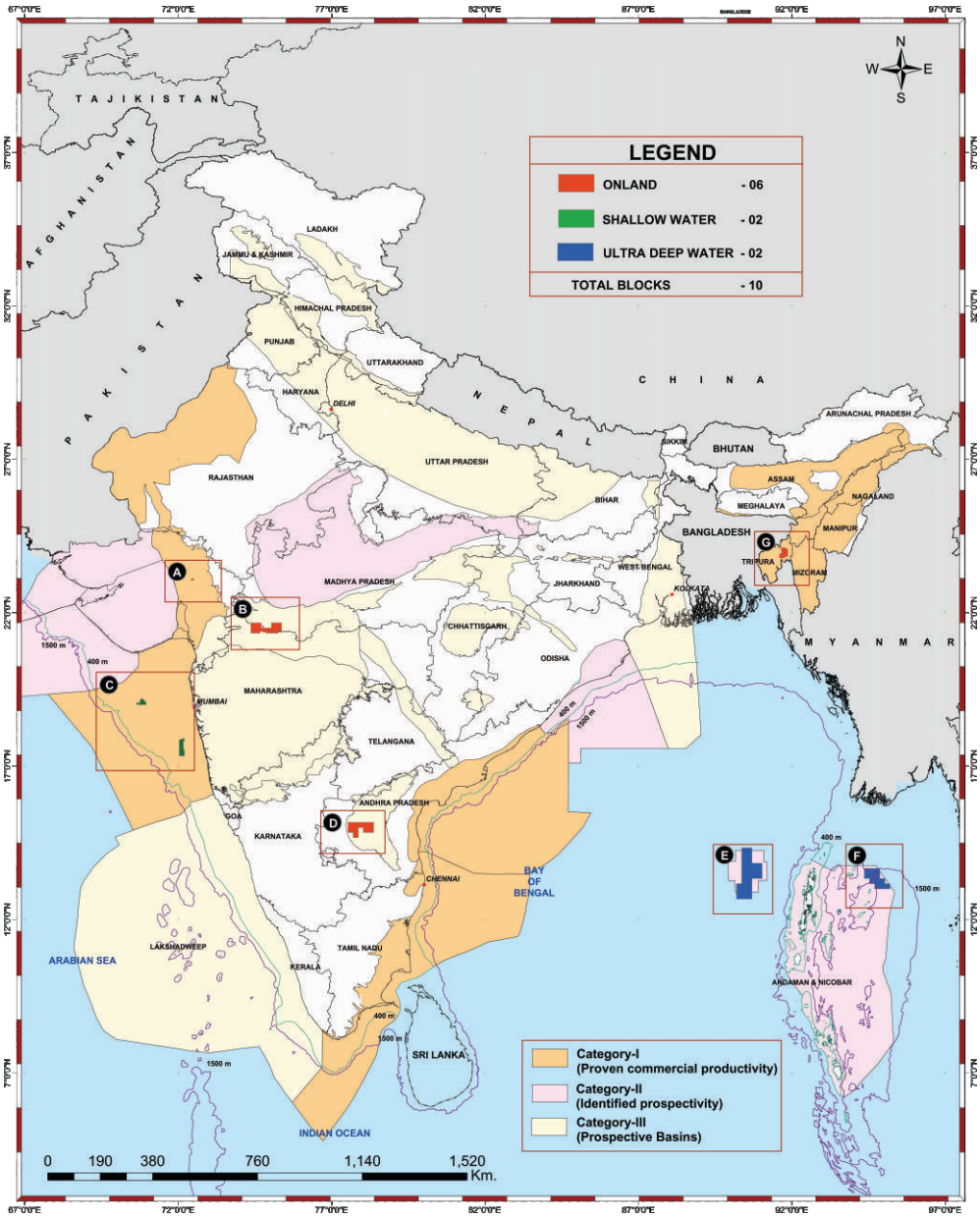
DGH

Directorate General of Hydrocarbons

(Under Ministry of Petroleum & Natural Gas)

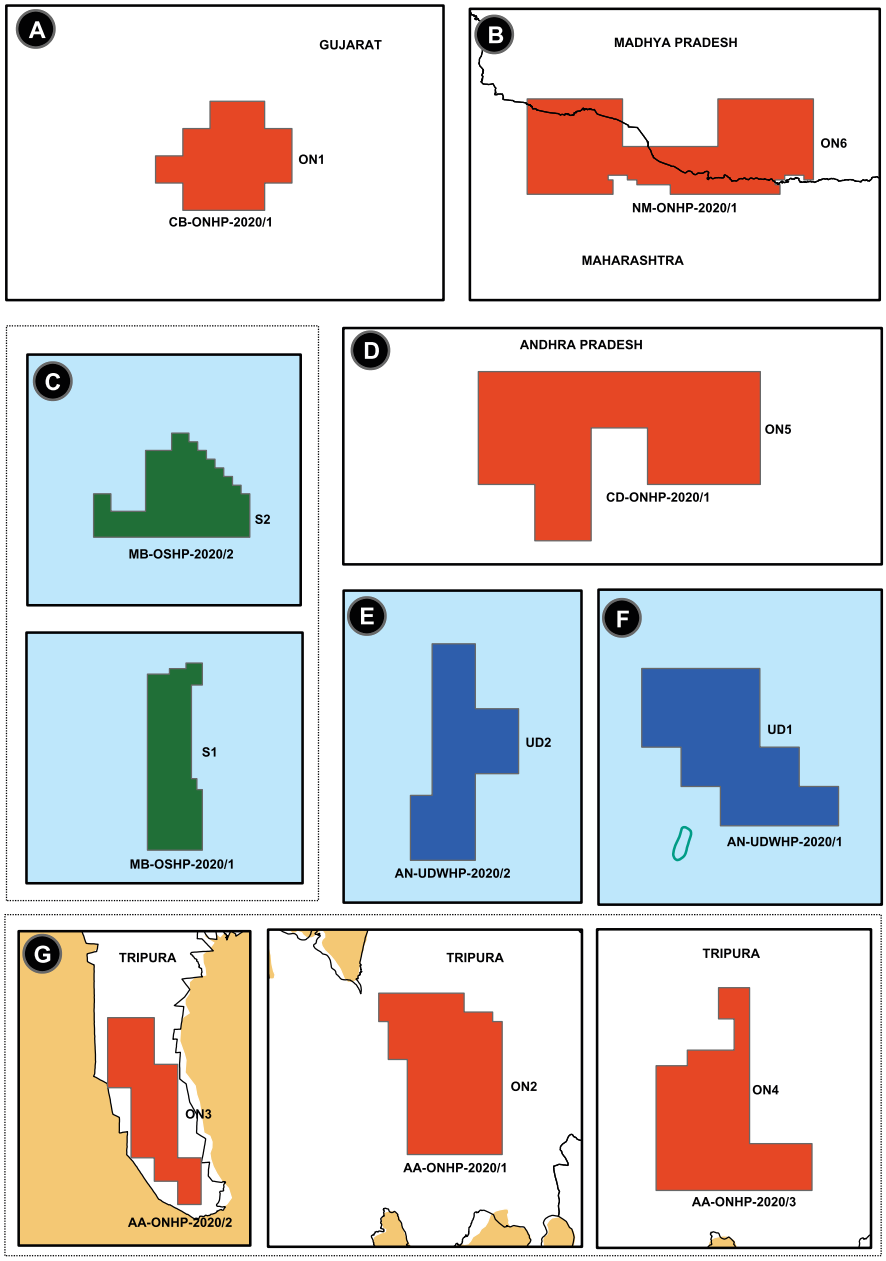
BLOCKS ON OFFER UNDER HELP, OALP BID ROUND-VI

Group A: Blocks Finalized under EoI Window: VIII



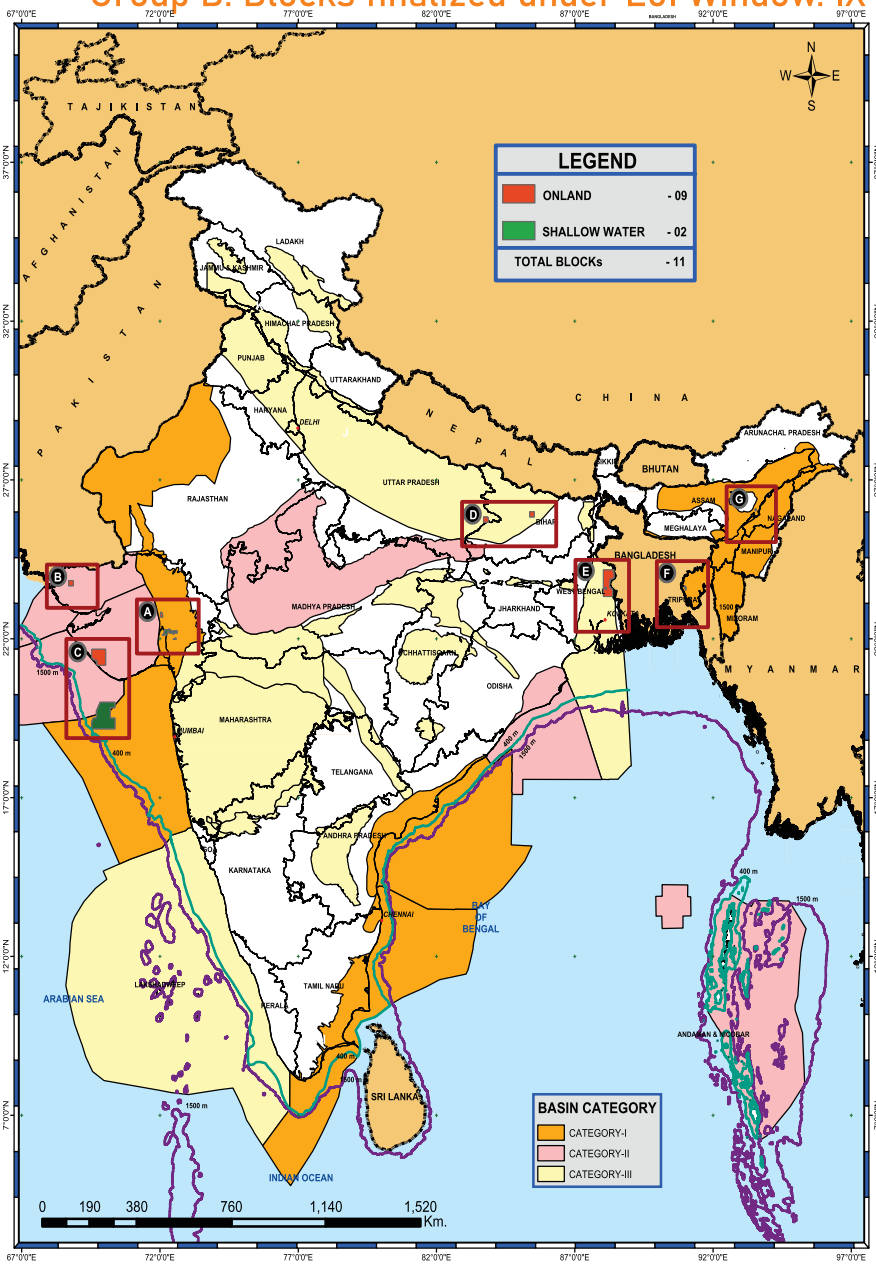
INDEX MAP OF BLOCKS ON OFFER

Group A: Blocks finalized under EoI Window: VIII



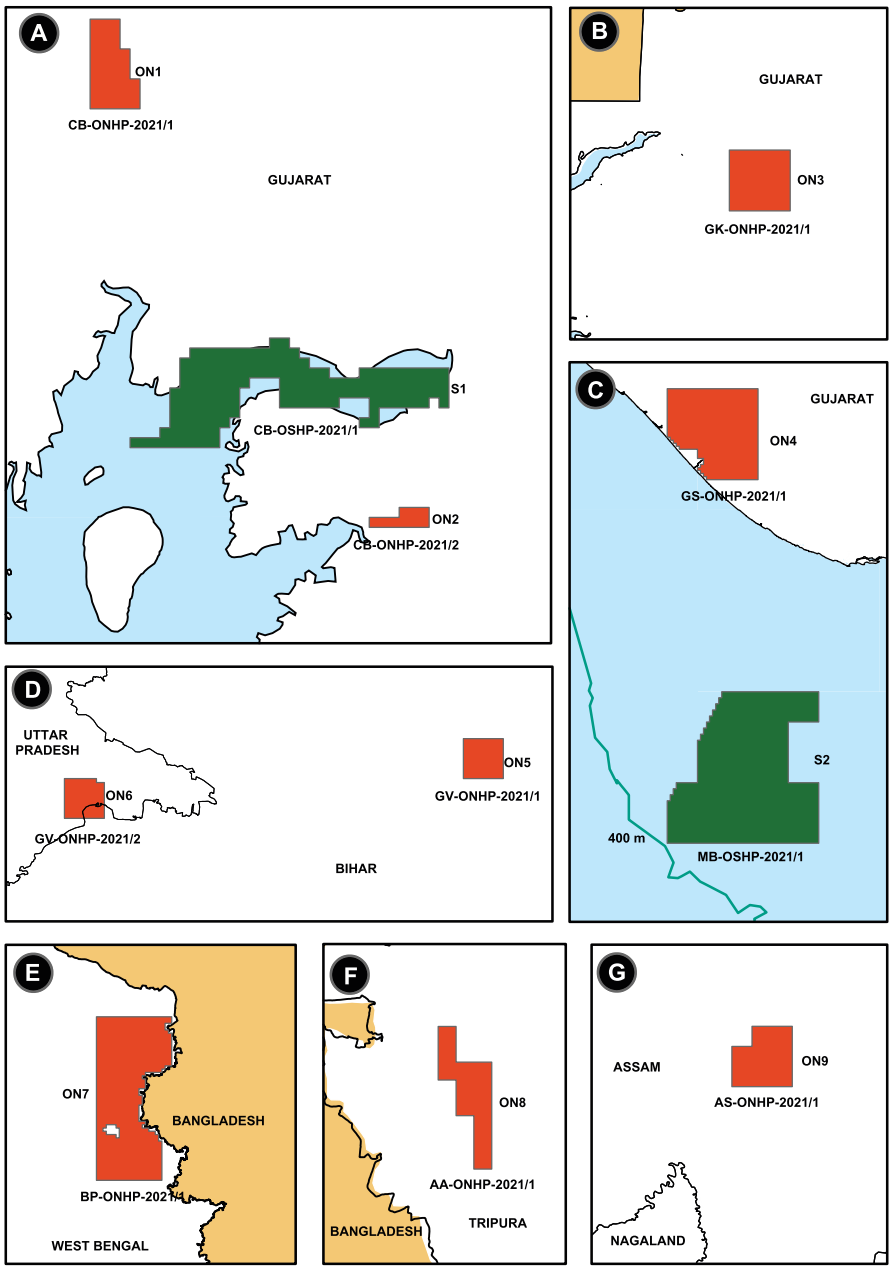
BLOCKS ON OFFER UNDER HELP, OALP BID ROUND-VI

Group B: Blocks finalized under EoI Window: IX



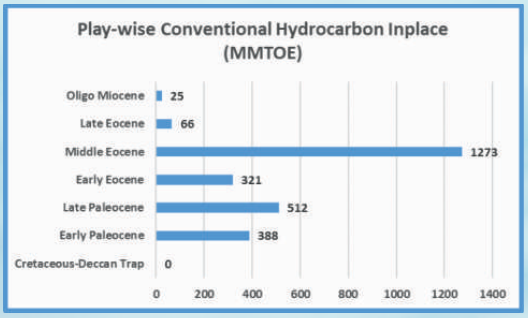
INDEX MAP OF BLOCKS ON OFFER

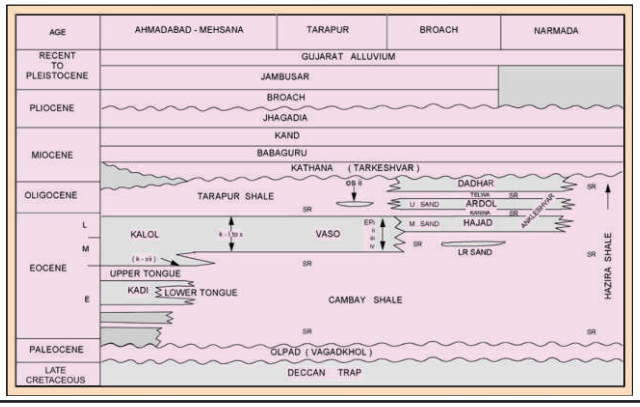
Group B: Blocks finalized under EoI Window: IX



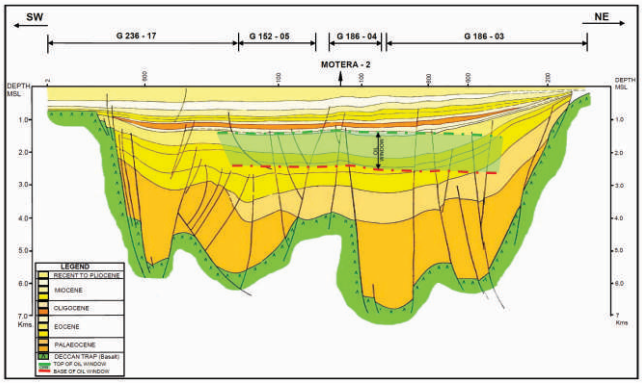
CAMBAY BASIN

Basin Area (sq.km)	EoI Window	Blocks on Offer	Resource Potential (In-place MMTOE)	
			Discovered	Undiscovered
53,500	VIII	CB-ONHP-2020/1	1800	786
	IX	CB-ONHP-2021/1		
		CB-ONHP-2021/2		
		CB-OSHP-2021/1		





Stratigraphic Chart of Cambay Basin

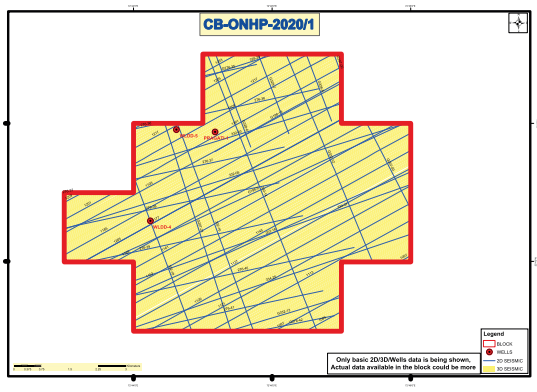


Seismological Section Across Motera Area in Ahmedabad Block

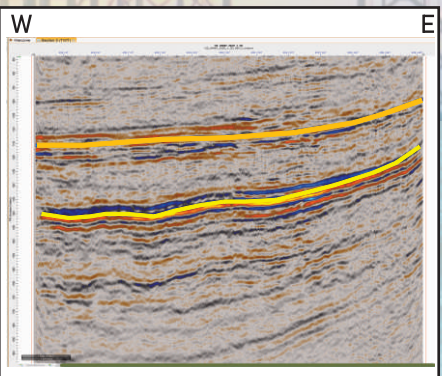
BLOCKS ON OFFER

CB-ONHP-2020/1	
Area (sq.km)	44.13
2D (LKM)	238
3D (sq.km)	44
No.of Wells	3
Reports	3

Block Details



Base Map of Offered Block

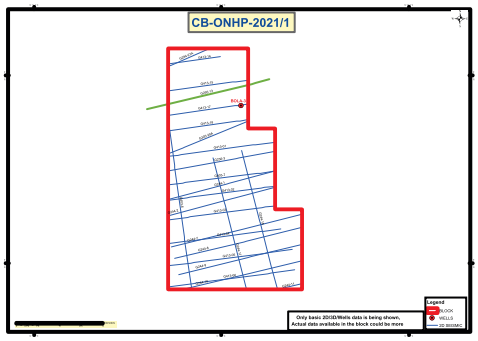


Representative Seismic Section from Offered Block

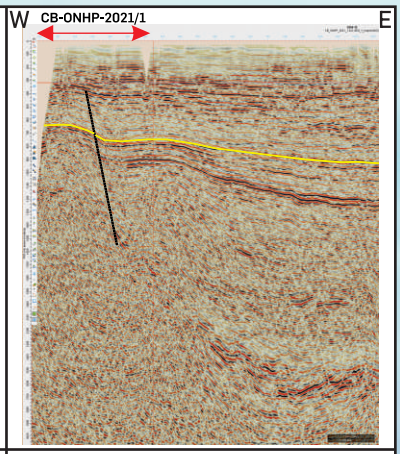
CAMBAY BASIN

CB-ONHP-2021/1	
Area (sq.km)	113.74
2D (LKM)	170.96
3D (sq.km)	0
No.of Wells	1
Reports	1

Block Details



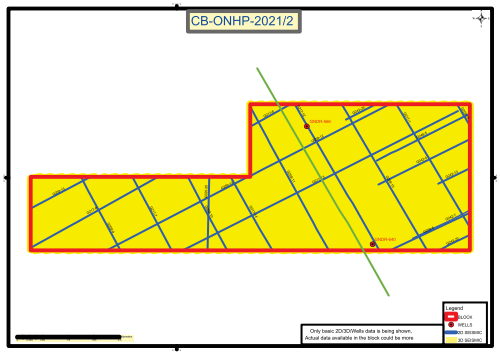
Base Map of Offered Block



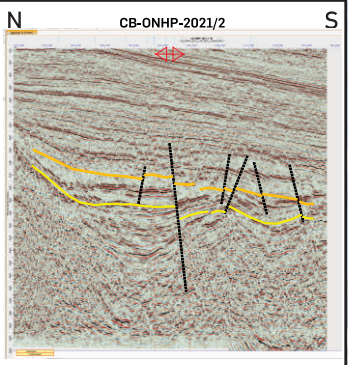
Representative Seismic Section from Offered Block

CB-ONHP-2021/2	
Area (sq.km)	28.59
2D (LKM)	58.92
3D (sq.km)	28.59
No.of Wells	2
Reports	2

Block Details



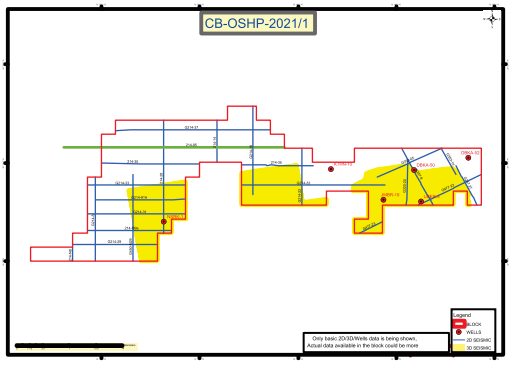
Base Map of Offered Block



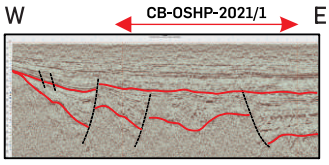
Representative Seismic Section from Offered Block

CB-OSHP-2021/1	
Area (sq.km)	472.56
2D (LKM)	242.89
3D (sq.km)	141.78
No.of Wells	6
Reports	6

Block Details



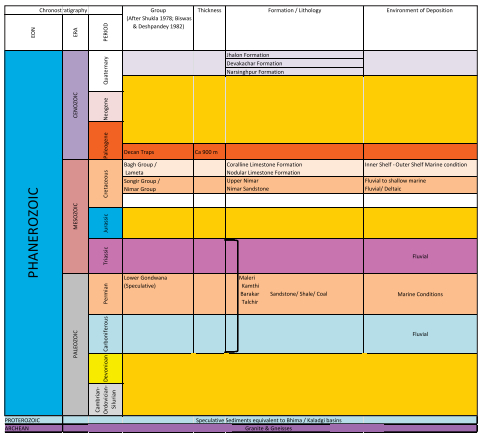
Base Map of Offered Block



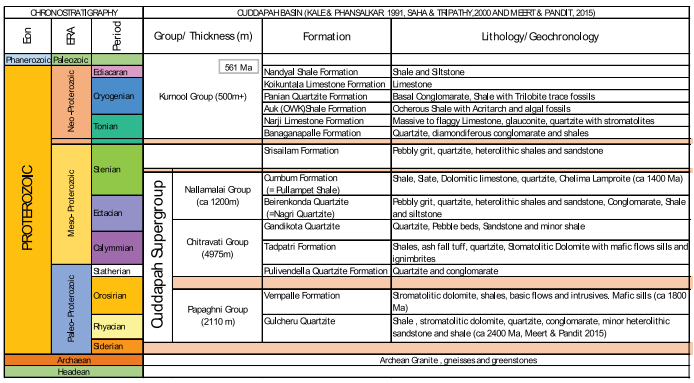
Representative Seismic Section from Offered Block

NARMADA BASIN & CUDDAPAH BASIN

Basin Area (sq.km)		EoI Window	Blocks on Offer	Resource Potential (In-place MMTOE)	
				Discovered	Undiscovered
Narmada Basin	95,215	VIII	NM-ONHP-2020/1	0	18
Cuddapah Basin	40,100		CD-ONHP-2020/1	0	5



Generalized Stratigraphy of Narmada Basin

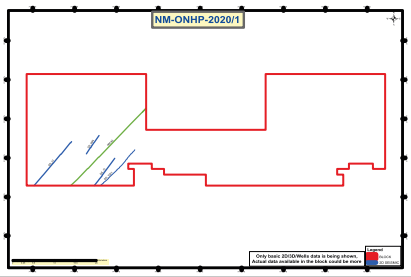


Generalized Stratigraphy of Cuddapah Basin

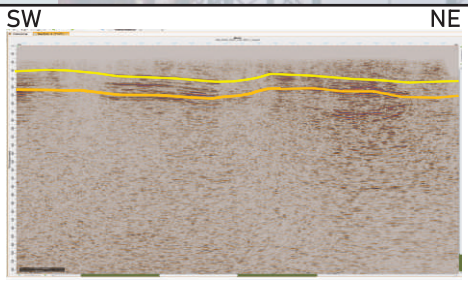
BLOCKS ON OFFER

NM-ONHP-2020/1	
Area (sq.km)	2999. 15
2D (LKM)	85
3D (sq.km)	-
No.of Wells	-
Reports	-

Block Details



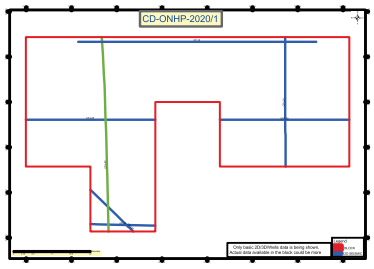
Base Map of Offered Block



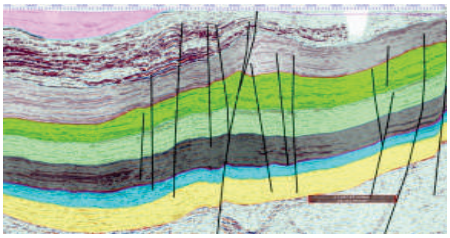
Representative Seismic Section from Offered Block

CD-ONHP-2020/1	
Area (sq.km)	3305. 89
2D (LKM)	265
3D (sq.km)	-
No.of Wells	-
Reports	-

Block Details



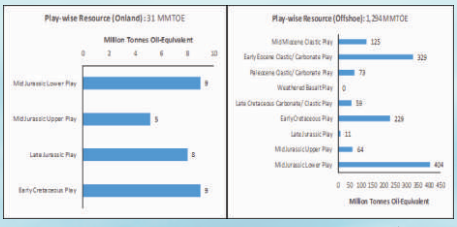
Base Map of Offered Block



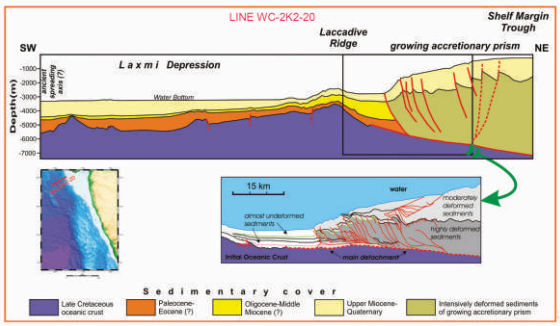
Representative Seismic Section from Offered Block

SAURASHTRA BASIN

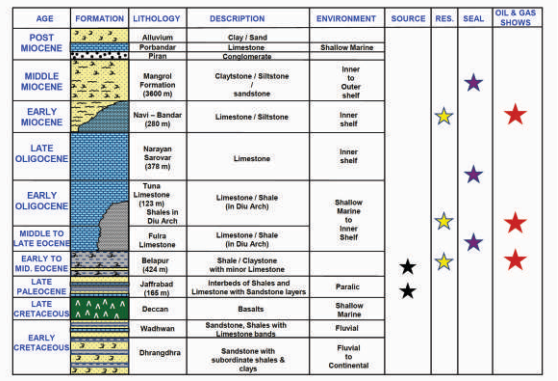
Basin Area (sq.km)	EoI Window	Blocks on Offer	Resource Potential (In-place MMTOE)	
			Discovered	Undiscovered
1,94,114	IX	GS-ONHP-2021/1	79	1,246



Play-wise Conventional Hydrocarbon In-place (MMTOE)



Geological Section Accross Saurashtra Basin



AGE	FORMATION	LITHOLOGY	DESCRIPTION	ENVIRONMENT	SOURCE	RES.	SEAL	OIL & GAS SHOWS
POST MIOCENE		Alluvium	Clay / Sand					
		Porbandar	Limestone	Shallow Marine				
		Piran	Conglomerate					
MIDDLE MIOCENE		Mangrol Formation (3600 m)	Claystone / Siltstone / sandstone	Inner to Outer shelf			★	
EARLY MIOCENE		Navi – Bandar (280 m)	Limestone / Siltstone	Inner shelf		★		★
LATE OLIGOCENE		Narayan Sarovar (378 m)	Limestone	Inner shelf			★	
EARLY OLIGOCENE		Tuna Limestone (123 m) Shales in Diu Arch	Limestone / Shale (in Diu Arch)	Shallow Marine to Inner Shelf		★		★
MIDDLE TO LATE EOCENE		Fulra Limestone	Limestone / Shale (in Diu Arch)				★	★
EARLY TO MID. EOCENE		Belapur (424 m)	Shale / Claystone with minor Limestone		★	★		
LATE PALEOCENE		Jaffrabad (165 m)	Interbeds of Shales and Limestone with Sandstone layers	Paralic	★			
LATE CRETACEOUS		Deccan	Basalts	Shallow Marine				
EARLY CRETACEOUS		Wadhwan	Sandstone, Shales with Limestone bands	Fluvial				
		Dhrangdhra	Sandstone with subordinate shales & clays	Fluvial to Continental				

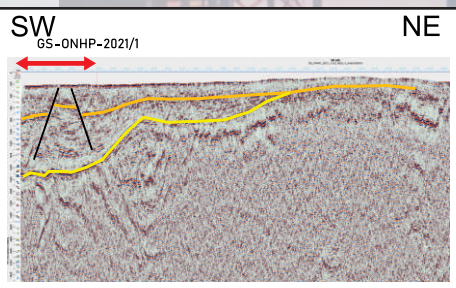
Litho-Stratigraphy of Saurashtra Basin

BLOCKS ON OFFER

GS-ONHP-2021/1	
Area (sq.km)	2483.64
2D (LKM)	35.77
3D (sq.km)	0
No.of Wells	0
Reports	0

Block Details

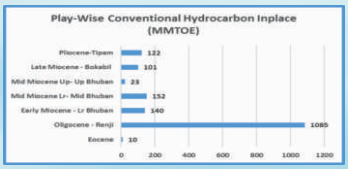
Base Map of Offered Block

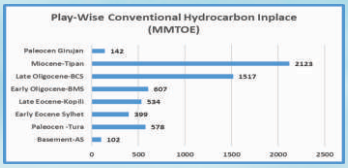


Representative Seismic Section from Offered Block

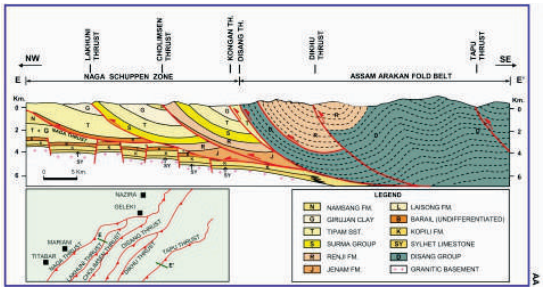
ASSAM - ARAKAN FOLD BELT & ASSAM SHELF

Basin Area (sq.km)	EoI Window	Blocks on Offer	Resource Potential (In-place MMTOE)	
			Discovered	Undiscovered
80,825	VIII	AA-ONHP-2020/1	178	1455
		AA-ONHP-2020/2		
		AA-ONHP-2020/3		
56,000	IX	AA-ONHP-2021/1		
		AS-ONHP-2021/1	1868	4133

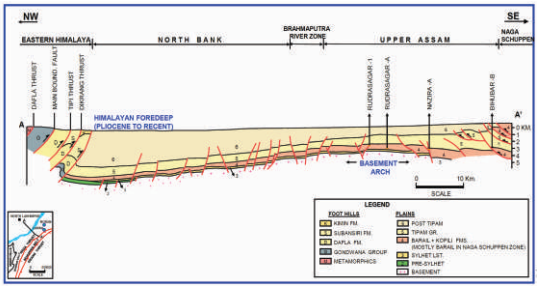




Play-wise Conventional Hydrocarbon In-place (MMTOE)



Geological Section across NSB and AAFB

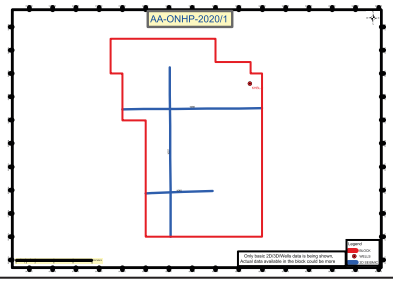


Geological Cross - Section of Assam-shelf

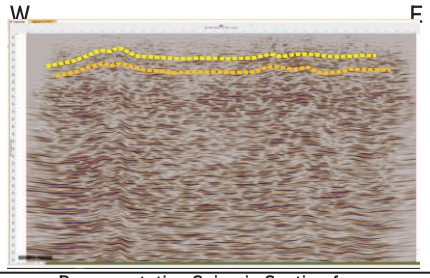
BLOCKS ON OFFER

AA-ONHP-2020/1	
Area (sq.km)	557. 33
2D (LKM)	57
3D (sq.km)	-
No.of Wells	1
Reports	1

Block Details



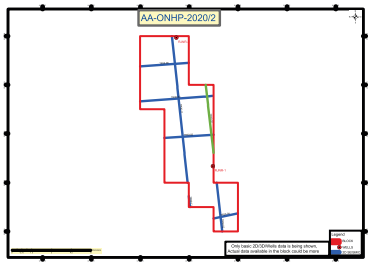
Base Map of Offered Block



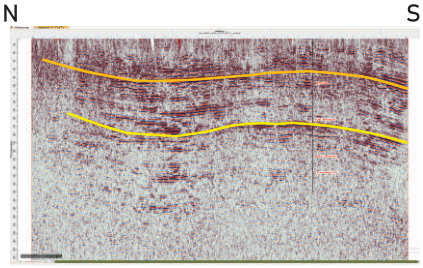
Representative Seismic Section from Offered Block

AA-ONHP-2020/2	
Area (sq.km)	50. 41
2D (LKM)	34
3D (sq.km)	-
No.of Wells	2
Reports	2

Block Details



Base Map of Offered Block

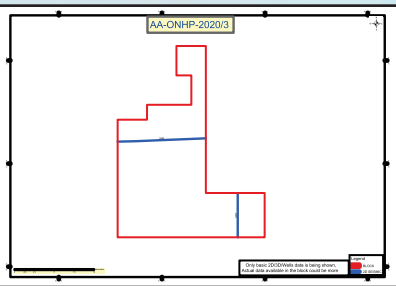


Representative Seismic Section from Offered Block

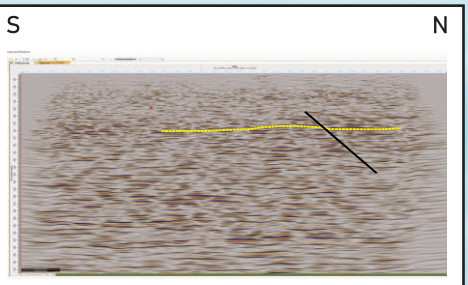
ASSAM - ARAKAN FOLD BELT & ASSAM SHELF

AA-ONHP-2020/3	
Area (sq.km)	219. 37
2D (LKM)	16
3D (sq.km)	-
No.of Wells	-
Reports	-

Block Details



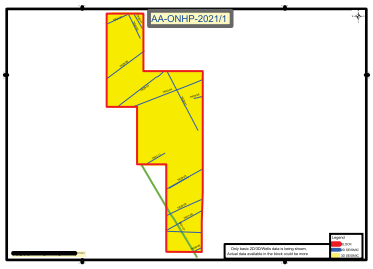
Base Map of Offered Block



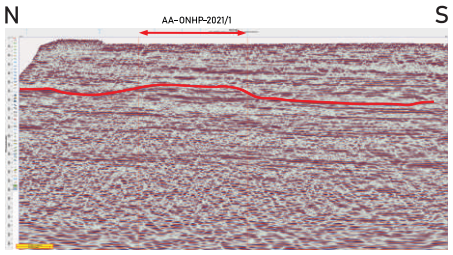
Representative Seismic Section from Offered Block

AA-ONHP-2021/1	
Area (sq.km)	37. 68
2D (LKM)	29.48
3D (sq.km)	37.68
No.of Wells	-
Reports	-

Block Details



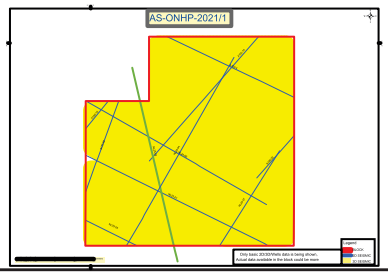
Base Map of Offered Block



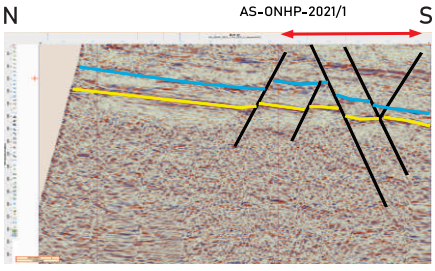
Representative Seismic Section from Offered Block

AS-ONHP-2021/1	
Area (sq.km)	24. 64
2D (LKM)	35.10
3D (sq.km)	24.48
No.of Wells	-
Reports	-

Block Details



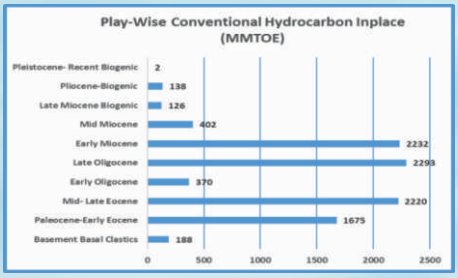
Base Map of Offered Block

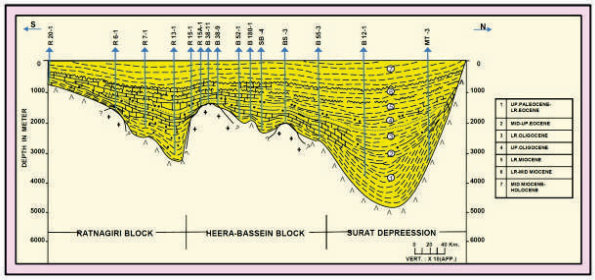


Representative Seismic Section from Offered Block

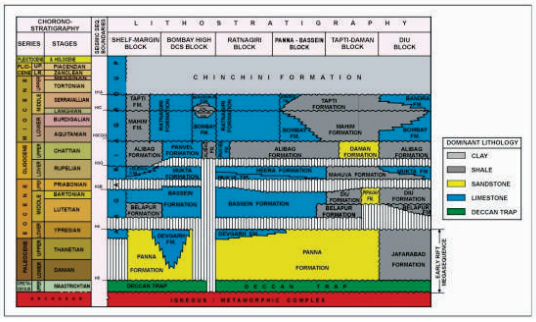
MUMBAI OFFSHORE BASIN

Basin Area (sq.km)	Blocks on Offer	Resource Potential (In-place MMTOE)	
		Discovered	Undiscovered
2,12,000	MB-OSHP-2020/1,	4794	4852
	MB-OSHP-2020/2		
	MB-OSHP-2021/1		





Geological Section (N-S) from Surat Depression to Ratnagiri Block

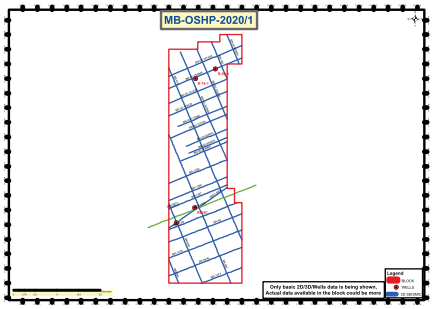


Litho- Stratigraphy of Mumbai Offshore Basin

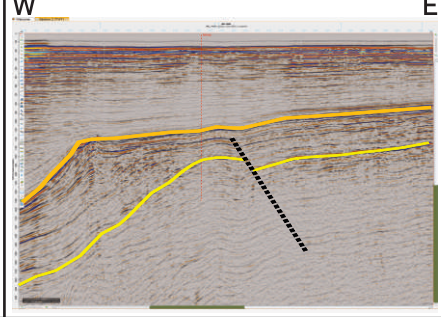
BLOCKS ON OFFER

MB-OSHP-2020/1	
Area (sq.km)	956. 10
2D (LKM)	481
3D (sq.km)	-
No.of Wells	4
Reports	4

Block Details



Base Map of Offered Block

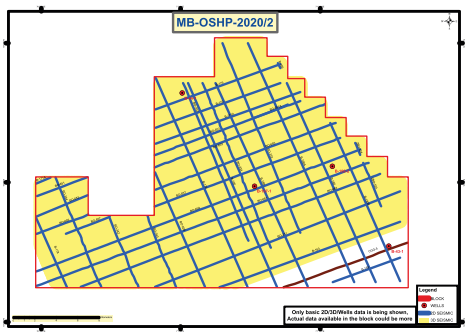


Representative Seismic Section from Offered Block

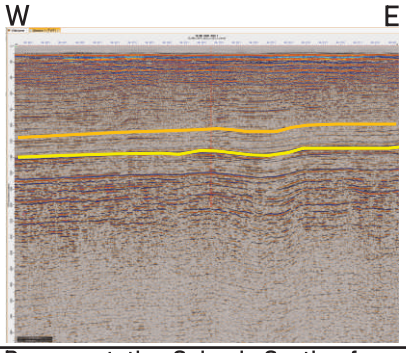
MUMBAI OFFSHORE BASIN

MB-OSHP-2020/2	
Area (sq.km)	427. 17
2D (LKM)	475
3D (sq.km)	398
No.of Wells	4
Reports	4

Block Details



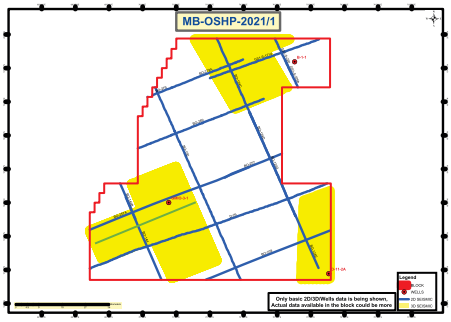
Base Map of Offered Block



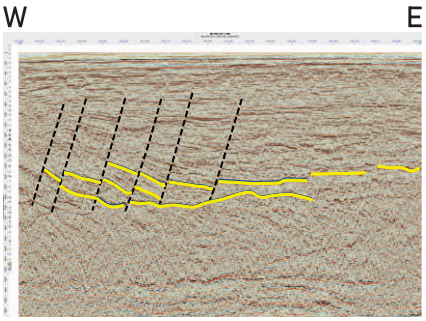
Representative Seismic Section from Offered Block

MB-OSHP-2021/1	
Area (sq.km)	6183.17
2D (LKM)	657.84
3D (sq.km)	1818.45
No.of Wells	3
Reports	3

Block Details



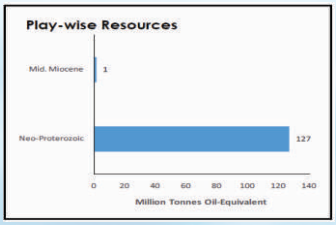
Base Map of Offered Block



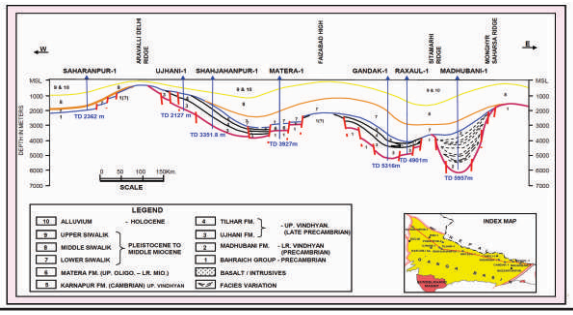
Representative Seismic Section from Offered Block

GANGA-PUNJAB BASIN

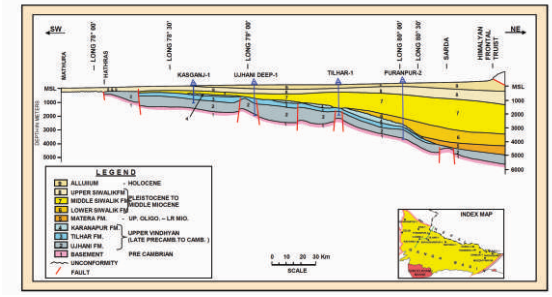
Basin Area (sq.km)	EoI Window	Blocks on Offer	Resource Potential (In-place MMTOE)	
			Discovered	Undiscovered
3,04,000	IX	GV-ONHP-2021/1	0	128
		GV-ONHP-2021/1		



Play-wise Conventional Hydrocarbon In-place (MMTOE)



East-West Seismogeological Cross Section along Strike

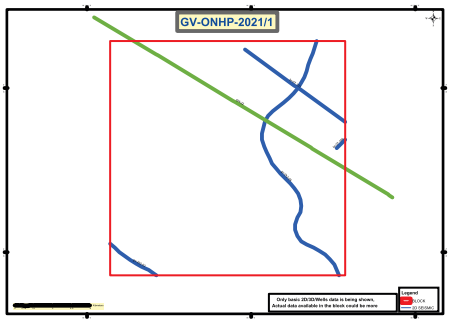


Representative Geological Cross Section

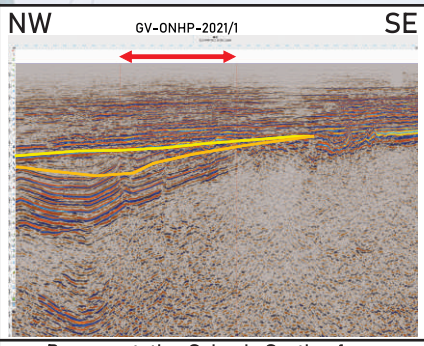
BLOCKS ON OFFER

GV-ONHP-2021/1	
Area (sq.km)	308.32
2D (LKM)	54.27
3D (sq.km)	0
No.of Wells	0
Reports	0

Block Details



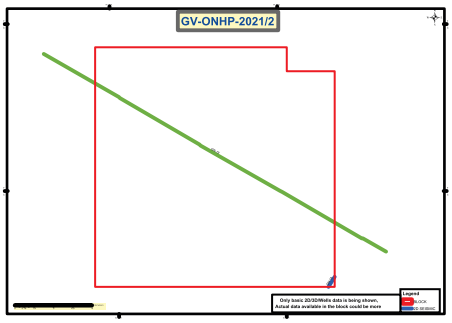
Base Map of Offered Block



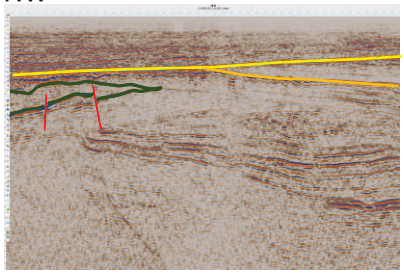
Representative Seismic Section from Offered Block

GV-ONHP-2021/2	
Area (sq.km)	302.57
2D (LKM)	20.76
3D (sq.km)	0
No.of Wells	0
Reports	0

Block Details



Base Map of Offered Block

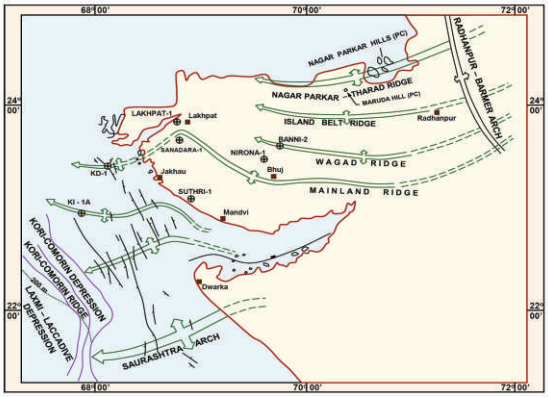


Representative Seismic Section from Offered Block

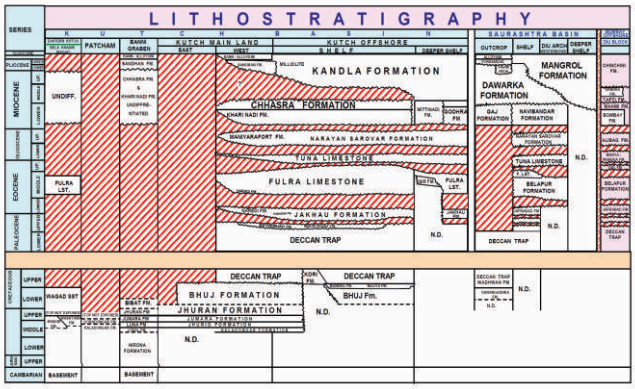
KUTCH BASIN

Basin Area (sq.km)	EoI Window	Block on Offer	Resource Potential (In-place MMTOE)	
			Discovered	Undiscovered
58,554	IX	GK-ONHP-2021/1	71	827

Play-wise Conventional Hydrocarbon In-place (MMTOE)



Techtonic Framework of Kutch Basin

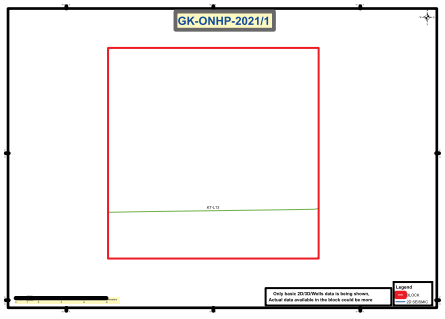


Generalized Litho-Stratigraphy of Kutch Basin

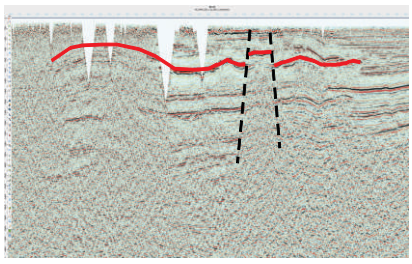
BLOCK ON OFFER

GK-ONHP-2021/1	
Area (sq.km)	313.64
2D (LKM)	17.07
3D (sq.km)	0
No.of Wells	0
Reports	0

Block Details



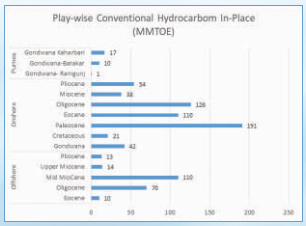
Base Map of Offered Block



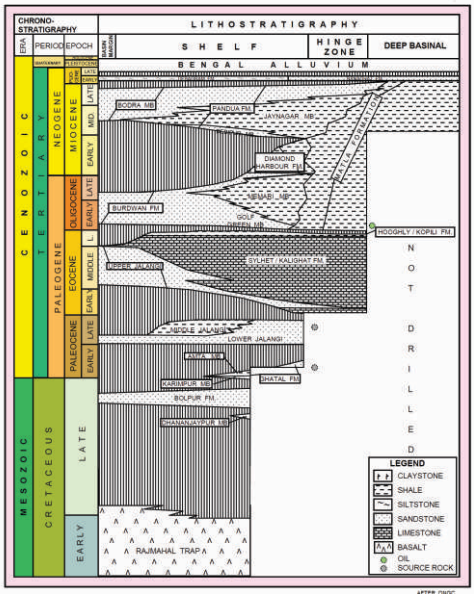
Representative Seismic Section from Offered Block

BENGAL PURNEA BASIN

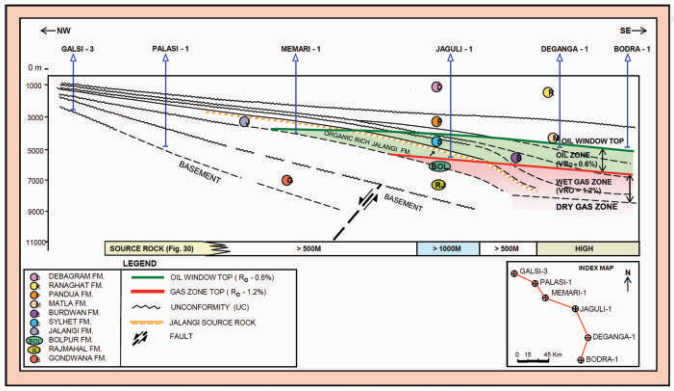
Basin Area (sq.km)	EoI Window	Block on Offer	Resource Potential (In-place MMTOE)	
			Discovered	Undiscovered
1,21,914	IX	BP-ONHP-2021/1	0	828



Play-wise Conventional Hydrocarbon In-place (MMTOE)



Composite Stratigraphy of Bengal Basin

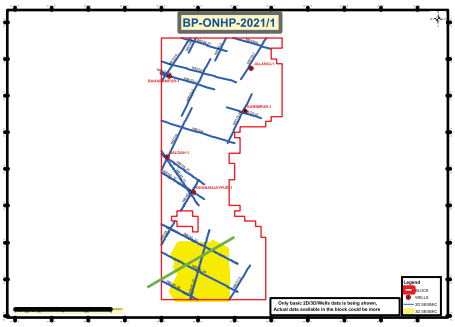


Well Correlation Section Showing Thermal Maturation Zones

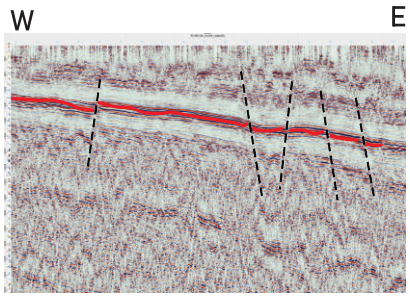
BLOCK ON OFFER

BP-ONHP-2021/1	
Area (sq.km)	2872.56
2D (LKM)	412.63
3D (sq.km)	329.71
No.of Wells	5
Reports	5

Block Details



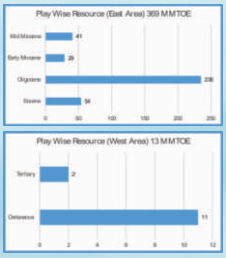
Base Map of Offered Block



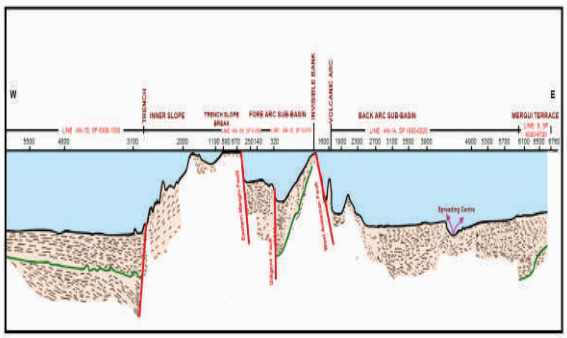
Representative Seismic Section from Offered Block

ANDAMAN - NICOBAR

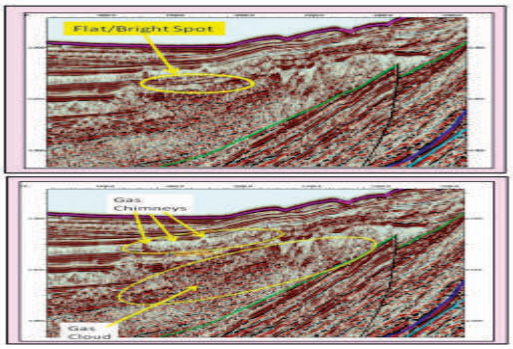
Basin Area (sq.km)	EoI	Blocks on Offer	Resource Potential (In-place MMTOE)	
2,25,918	VIII	AN-UDWHP-2020/1,	Discovered	Undiscovered
		AN-UDWHP-2020/2	2	369



Play-wise Conventional Hydrocarbon In-place (MMTOE)



Geological Section across of Andaman and Nicobar Basin

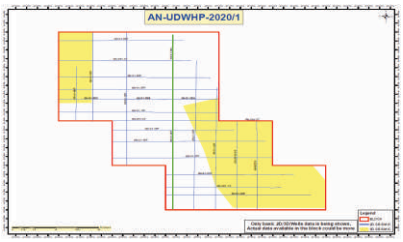


Flat / Bright Spot, Gas Chimnay& Gas Clouds Andaman Basin

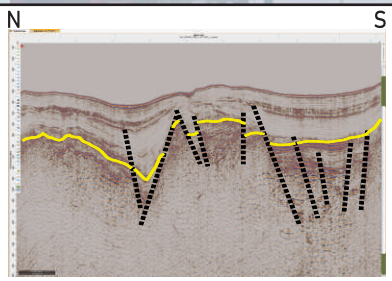
BLOCKS ON OFFER

AN-UDWHP-2020/1	
Area (sq.km)	3995. 25
2D (LKM)	1020
3D (sq.km)	1494
No.of Wells	-
Reports	-

Block Details



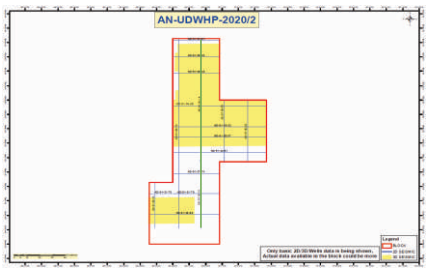
Base Map of Offered Block



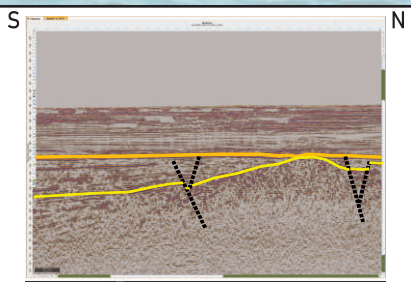
Representative Seismic Section from Offered Block

AN-UDWHP-2020/2	
Area (sq.km)	9650. 12
2D (LKM)	1053
3D (sq.km)	5492
No.of Wells	-
Reports	-

Block Details



Base Map of Offered Block



Representative Seismic Section Offered Block

PRICE LIST OF MANDATORY DATA PACKAGES & DETAILS OF DATA VIEWING FACILITY

Price list of Mandatory Data Packages: OALP Bid Round-VI

- Bidders will have to submit a non-refundable tender fee of 75,000 INR to be paid online to DGH at the bidding stage.
- Mandatory data package purchase required for each block as tabulated below.

Mandatory Data Package Price List

S.No	BASIN NAME	BLOCK NAME	COST OF BASIC DATA (USD)
1	CAMBAY BASIN	CB-ONHP-2020/1	600
2	NARMADA	NM-ONHP-2020/1	600
3	CUDDAPAH	CD-ONHP-2020/1	800
4	ASSAM ARAKAN FOLD BELT	AA-ONHP-2020/1	700
5	ASSAM ARAKAN FOLD BELT	AA-ONHP-2020/2	800
6	ASSAM ARAKAN FOLD BELT	AA-ONHP-2020/3	500
7	MUMBAI OFFSHORE	MB-OSHP-2020/1	1000
8	MUMBAI OFFSHORE	MB-OSHP-2020/2	1000
9	ANDAMAN-NICOBAR	AN-UDWHP-2020/1	1000
10	ANDAMAN-NICOBAR	AN-UDWHP-2020/2	1000
11	CAMBAY BASIN	CB-OSHP-2021/1	1000
12	CAMBAY BASIN	CB-ONHP-2021/1	300
13	CAMBAY BASIN	CB-ONHP-2021/1	320
14	KUTCH BASIN	GK-ONHP-2021/1	520
15	GANGA-PUNJAB	GV-ONHP-2021/1	560
16	GANGA-PUNJAB	GV-ONHP-2021/1	520
17	ASSAM ARAKAN FOLD BELT	AA-ONHP-2021/1	530
18	ASSAM SHELF	AS-ONHP-2021/1	540
19	SAURASHTRA	GS-ONHP-2021/1	540
20	MUMBAI OFFSHORE	MB-ONHP-2021/1	1000
21	BENGAL PURNEA	BP-ONHP-2021/1	1000

Mandatory Data package consists of selected 2D Lines, well data and well reports (WCR/FER) from the available data in the block.

Bidders can purchase additional data over and above the basic data from NDR as per NDR purchase list. Reports of Hydrocarbon Resource Assessment can be purchased from NDR Web Portal. Originator of the Block need not to purchase Mandatory Data Package.

Data ordered and purchased between start date of respective EoI window and bid closing date with respect to the block on offer under respective OALP Bid Round for the value equal to or more than the specified value published as above will be considered against the mandatory purchase of Data Package.

Data Viewing Facility

Physical data rooms with interpretation facility

Physical data rooms with interpretation facility for Block on offer (Under OALP Bid Round-VI) will be available at NOIDA, Uttar Pradesh(India). The charges for data rooms per day per workstation will be as per NDR Data Viewing Policy and fee would be payable through NDR portal (https:// www.ndrdgh.gov.in/NDR)

The data viewing would be as per the following conditions

- A maximum of up to only 4 technical persons are permitted in Data Viewing Room at one time.
- Copying, photocopying or downloading is not allowed. Only notes can be taken.
- Bags, Briefcase etc. are not permitted in Data Viewing Room. Only pens/pencils and paper note books are permitted.
- Resource reassessment reports and data packages will be put up for viewing in the data rooms.
- Only authorized representatives of a Company/Consortium can view the data. Independent consultants are not permitted.
- Data viewing will be with prior appointment on first come first served basis.
- Company/Consortium can view selected data on online on web only on authorization by DGH, for further details, visit the DGH website: **www.dghindia.gov.in**

JOURNEY OF OALP BID ROUNDS

OALP Bid Round-I

Sedimentary Basins: 10, Blocks Awarded: 55
Total Awarded Block Area : 59282 sq.km

OALP Bid Round-II

Sedimentary Basins: 7, Blocks Awarded: 14
Total Awarded Block Area : 29232.52 sq.km

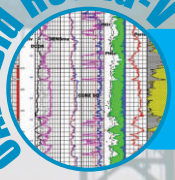
OALP Bid Round-III

Sedimentary Basins: 10 Blocks Awarded: 18
Total Awarded Block Area : 29765 sq.km

OALP Bid Round-IV

Sedimentary Basins:3, Blocks Awarded: 7
Total Awarded Block Area : 18509.69 sq.km

OALP Bid Round-V

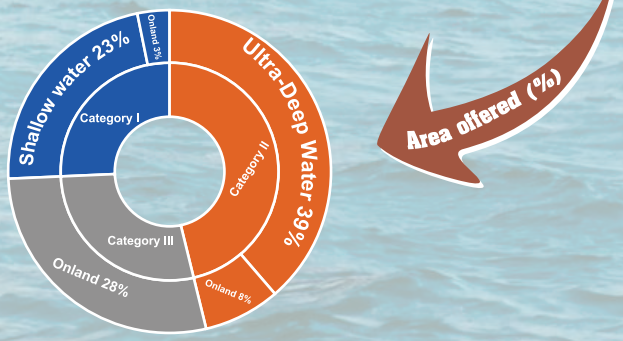


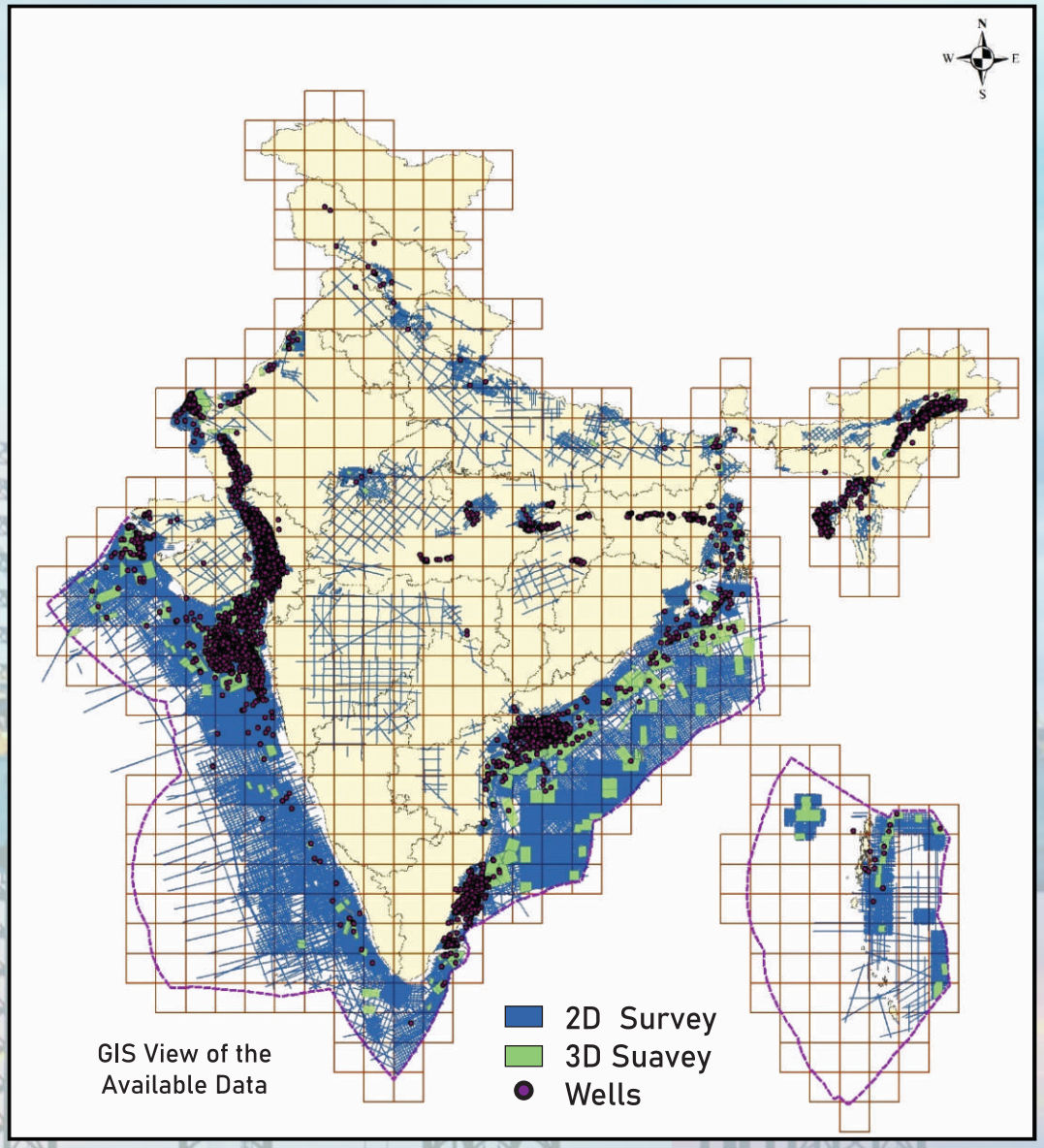
Sedimentary Basins : 8, Blocks Awarded :11
Total Awarded Block Area :19789.04 sq.km

OALP Bid Round-VI

On Offer

Sedimentary Basins : 11, Blocks Offered : 21
Total Offered Block Area :35,346.03 sq.km





GIS View of the Available Data

DGH
Directorate General of Hydrocarbons (Under Ministry of Petroleum & Natural Gas)
OIDB Bhawan, Tower-A, Sector-73, Noida-201301, U.P. INDIA
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