

सत्यमेव जयते

## **Notice Inviting Offers (NIO)**

Format for Submission of Bids and Price List of  
Information Dockets & Data Packages

for

## **Development of Discovered Small Oil & Gas Fields in India under Discovered Small Field Policy**

*Second Round of offer of Contract Areas*



**Ministry of Petroleum & Natural Gas**  
Government of India

**2018**

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**Notice Inviting Offers (NIO)**  
for  
**Development of**  
**Discovered Small Oil & Gas Fields in India**  
under  
**Discovered Small Field Policy**  
*Second Round of offer of Contract Areas*



## I. ANNOUNCEMENT

With the objective to augment domestic production of Crude oil and Natural Gas, the Government of India (Government) announces the offer of 59 fields under the Discovered Small Field Policy through International Competitive Bidding (ICB). These fields have been discovered by Oil & Natural Gas Corporation Ltd (ONGC), Oil India Ltd (OIL) and others. These are envisaged to be put on production through expeditious efforts.

Companies are invited to bid for development and monetising Twenty Five (25) Contract areas comprising Fifty Nine (59) Oil and Gas fields, distributed in Eight (8) sedimentary basins. Fifteen (15) Contract areas are located in Onland, Ten (10) Contract Areas are located in Shallow water Offshore. Companies, either alone or in consortium of unincorporated or incorporated Joint ventures, may bid for one or more Contract Areas.

The bids are to be submitted through the e-bidding portal (<https://ebidding.dghindia.gov.in>) set up for this purpose.

## II. MAIN FEATURES OF TERMS OFFERED

In line with Government's efforts to promote 'Ease of Doing Business', Discovered Small Fields shall be awarded to successful bidder by entering into a Revenue Sharing Contract (RSC) with the Government. RSC is based on a simple and easy to administer contractual model (Model Revenue Sharing Contract-MRSC) requiring minimum regulatory burden for monetizing Discovered Small Fields. Some of the attractive features of the terms offered by the Government are as under:

1. Single license is required for exploration and extraction of both conventional and unconventional hydrocarbons.
2. The contractor is allowed to carry out exploration activity during entire contract duration.
3. Bidding criteria is consisting of two components: Biddable Work Programme and Biddable Government Share of Revenue.
4. Biddable Work Programme consisting of Appraisal/ Development Wells only for Petroleum Operations, which is to be completed within three (3) years in case of Onland and four (4) years in case of shallow water Contract Areas.
5. Biddable Government Share of Revenue (net of Royalty) shall be payable by the Contractor since onset of production.
6. Up to 100% participation by foreign companies/joint ventures.
7. Offered fields shall not have any carried interest by National Oil Companies (ONGC, OIL) and other operators or State participation.
8. In order to incentivise new investors, technical capability is not kept as pre-qualification criteria.
9. Exemption from customs duty is provided on imports required for petroleum operations.
10. Oil cess shall not be applicable on crude oil/ condensate production from Discovered Small Fields.
11. The contractor will have freedom for pricing and marketing of gas produced from a Contract Area on arm's length basis.





12. Royalty for onland areas is payable at the rate of 12.5% for Crude Oil and 10% for Natural Gas and for Shallow water Offshore areas at 7.5% for both Crude Oil & Natural Gas.
13. Liberal provisions have been kept for assignment.
14. Arbitration and Conciliation Act, 1996, which has taken into account of United Nations Commission on International Trade Law (UNCITRAL) model, would be applicable.
15. Predetermined Liquidated Damages (LD) have been specified for unfinished Biddable Work Program.
16. One-time Bank Guarantee (BG) shall be applicable for the total Biddable Work Program or a one-time minimum bank guarantee shall be applicable as the case may be.
17. One-time payment of book value of wells and facilities of ONGC and OIL shall be made, which are identified to be handed over to the contractor on "as is where is" basis.
18. The maintenance/ Site restoration of the existing wells/ facilities as received would be the responsibility of the awardee, in line with the extant rules and regulation.

### III. BIDDABLE TERMS:

1. Companies would be required to bid for:
  - i. Biddable Work program ( 20% weightage)
  - ii. The percentage share of Revenue offered to the Government (80% weightage)
2. Biddable Work Programme should consist of Appraisal / Development Wells only.
3. The bidder should bid percentage share of Revenue offered to Government of India (GOI) by the bidder at the Lower Revenue Point (LRP) which is equal to or less than US \$ 0.0100 million of revenue per day and at the Higher Revenue Point (HRP) which is equal to or more than US \$ 1.0000 million of revenue per day.
4. The revenue for the purposes of determining the Government's share of Revenue shall be:
  - i. All amounts that are accruing to the Contractor, net of taxes on sales, on account of or in relation to the petroleum produced and saved from the Contract area, including the stock in hand, during a month after the effective date; less:
  - ii. Royalty for that month
5. The percentage revenue share to GOI between the LRP and HRP shall be interpolated on a linear scale with a positive slope.
6. The percentage revenue shares offered shall be non-zero positive whole numbers, such that, the percentage share of Revenue offered by the bidder to Government of India at Higher Revenue Point (HRP) shall be more than that offered at Lower Revenue Point (LRP). Bids not fulfilling these requirements will not be accepted for the purpose of evaluation.

### IV. BID QUALIFYING CRITERIA

1. Payment of Tender Fees must be made, by bidding company or any member of the consortium, by way of purchase of the requisite Information Docket for Onshore and /or Offshore Contract Areas to be bid as the case may be, on or before bid closing date. (Please refer Price List).



2. The bidder must be a company singly or in association with other companies, through an unincorporated or incorporated venture.
3. The net worth of the bidding company(s) should be equal to or more than its Participating Interest value of the Work Programme commitment, provided that every company should have a minimum net worth of US \$ 1 million. The net worth will be calculated in accordance with the method given in the 'FORMAT FOR SUBMISSION OF BIDS'. If a bidding company either bidding alone or in a consortium is a domestic company and does not have adequate net worth as mentioned above or its networth is negative, it may submit a bank guarantee (BG) to fulfil its net worth requirement as above, along with the bid in the format prescribed in Annexure-I. The validity of BG shall be One (01) year from date of bid closing. The BG can be submitted for the whole networth requirement or in partial fulfilment of the same. In such cases, the negative networth will not be considered. The bank guarantee of unsuccessful bidders will be released on signing of contract with the successful bidder for the Contract Area. The BG for successful bidders will be released upon submission of the BG against Liquidated Damages (LD) as per Article 27 of MRC.
4. The annual report including the audited annual accounts for the latest completed year and a Certificate of net-worth from company's statutory auditor(s) based on the audited annual accounts for the latest completed year certifying the net-worth of the bidding company should be submitted. In case the parent company provides financial and performance guarantee, the annual report, annual accounts and net-worth certificate in respect of parent company should be submitted and the financial capability of the parent company shall be considered for evaluating the financial capability of a bidding company. In such cases, the parent company of the successful bidder will be required to provide the financial and performance guarantee as per the provisions of MRSC.

## V. BID REJECTION CRITERIA

1. Any bid which is without documentary proof of payment of Tender Fees by way of purchase of the requisite Information Docket of the Contract Area to be bid, shall be rejected.
2. Any bid which is not submitted pursuant to the "Format for Submission of Bids" incorporating all the information/details listed therein including Bid Bond is liable to be rejected.
3. Any bid which is submitted with any assumptions / deviations which are inconsistent or not complying with the contract terms, listed in the brochure "Notice Inviting Offers for the Development of Discovered Small Oil & Gas Fields", is liable to be rejected.
4. Any bid which is not accompanied by the annual report incorporating the audited annual accounts for the latest completed year along with a Certificate of net worth from company's statutory auditor(s), based on the last audited annual accounts certifying the net worth of the bidding company, is liable to be rejected.
5. Government at its sole discretion reserves the right to accept or reject any or all of the bids received without assigning of any reason, whatsoever.

## VI. BID EVALUATION CRITERIA

The following main parameters will be considered while evaluating the bids:





1. The bidding companies should have adequate net worth. The net worth will be calculated in accordance with the method given in the "FORMAT FOR SUBMISSION OF BIDS". The net worth of every participating company should be equal to or more than every company's participating interest in the Biddable Work Programme, provided that the every company should have a minimum net worth of US \$ 1 million. In case the parent company's financial and performance guarantee is provided, the annual report, audited accounts and certificate of net worth should be furnished in respect of the parent company. If a bidding company either bidding alone or in a consortium is a domestic company and does not have adequate net worth as mentioned above or its networth is negative, it may submit a bank guarantee (BG) to fulfil its net worth requirement as above, along with the bid in the format prescribed in Annexure-I. The BG can be submitted for the whole networth requirement or in partial fulfilment of the same. In such cases, the negative networth will not be considered. The bank guarantee of unsuccessful bidders will be released on signing of contract with the successful bidder for the Contract Area.
2. In case a bidding company, either bidding alone or as a consortium, happens to be the best ranked bidder for two or more contract area, the net worth of the company shall be required to be equal to or more than its Participating Interest (PI) in the value of Biddable Work Programme for all such Contract Area. In case of 'Nil' Biddable Work Programme, while evaluating the bids, where a bidding company or a consortium happen to be best rank bidder for two or more Contract Area, the net worth of the company/ each company of the consortium shall be in proportion to their Participating Interest, which in aggregate, for each Contract Area, will be equal to an amount of US \$ 0.15 million and US \$ 0.23 million for Onland blocks and Shallow water Contract Areas respectively. In case, the company's networth is less than its Participating Interest in the value of Biddable Work Programme for all such Contract Areas, the bids will be considered in order of priority given by that company in their bids.
3. The bids will be evaluated on the basis of Biddable Work Programme and Biddable share of Government Revenue. The bids will be evaluated and ranked in accordance with the evaluation criteria provided herein. The points for each criterion shall be as under:

<b>Criteria</b>	<b>Points (points on a scale of 100)</b>
(A) Biddable Work Programme	20
(B) Biddable Government Share of Revenue	80

(A) EVALUATION OF BIDDABLE WORK PROGRAMME:

Only the biddable number of Appraisal / Development Well, proposed to be drilled as part of bid submission will be considered for evaluation purposes. Any contingent/ conditional Work Program will not be considered, while evaluating the bids.

<b>Work Program</b>	<b>Points</b>
Appraisal / Development Wells	Bidder with highest total number of wells (nos.) bid will be assigned 20 points and other bidders will be assigned points on pro-rata basis





## (B) EVALUATION OF BIDDABLE GOVERNMENT SHARE OF REVENUE:

- i. The Revenue share offered to Government by the bidder at the Lower Revenue Point (LRP) and at the Higher Revenue Point (HRP) will be considered for evaluation as under:
  - ii. The Net Present Value (NPV) of Revenue share offered to Government by applying ten percent (10%) discount rate will be computed under four scenarios taking into account four notional revenue profile scenarios. The assumed revenue profiles to be used for fiscal bid evaluation are given at Annexure-II. Bidders are advised to carefully go through these assumptions while formulating the bid(s). It is clarified that the revenue profiles are assumed numbers to be used exclusively for fiscal evaluation and do not constitute any indication of the field or revenue potential or future performance. A simple average of the four figures of NPV of Government share arrived under the four scenarios will be used for evaluation.
  - iii. The bid with the highest Government NPV (Net Present Value) will be given the maximum 80 points and other bids will get points proportionately computed with reference to the Government NPV computed for the higher bid.
4. In case of identical bids the bids, will be evaluated based on the total net worth of competing bidders.

## VII. TENDER FEES

For a bid to be valid, bidding company/consortium, as the case may be, is required to pay Tender Fees by way of purchase of the requisite Field Information Docket either of "All Onshore Contract Areas" or "All Offshore Contract Areas" or both depending upon whether company/ consortium is bidding for any of Onshore Contract Area or Offshore Contract Area or both, on or before bid closing date.

## VIII. AVAILABILITY OF INFORMATION

Notice Inviting Offers (NIO) giving details of the Contract Areas on offer, their geographical location on a map of India, the terms and conditions, bid format, price list, a copy of Model Revenue Sharing Contract (MRSC) will be made available free of cost to companies. Copies of these documents may also be seen at website of Ministry of Petroleum & Natural Gas <http://www.petroleum.nic.in>, at website of Directorate General of Hydrocarbons <http://www.dghindia.gov.in> and at exclusive bidding portal <https://ebidding.dghindia.gov.in>.

Field Information Dockets prepared by Directorate General of Hydrocarbons (DGH) for each Contract Area wherein the details of the fields on offer are available. These Dockets contain information on regional and local geology, concerned fields description, hydrocarbon discovery, Reserves (In-place and Ultimate) and a brief write-up of the field, wherever available, including details of wells drilled in the field. The Field Information Dockets are available for purchase through e-bidding portal <https://ebidding.dghindia.gov.in>. Basin Information Dockets containing geological information about the Sedimentary Basins in which the contract area are located is also available for purchase in soft version. The Data Packages of the contract area on offer are available in digital mode. The digital data set comprising seismic data, navigation data and well-log data, special reports like well completion reports, etc., wherever available for the individual Contract Areas are available for purchase (for details, see Price List).





The digital copies of the Field Information Dockets and Data Packages on work stations with interpretation facilities are available for inspection at data viewing centres for Discovered Small Fields at DGH, Noida and other location if any for aforesaid facilities will be notified later through DGH website <http://www.dghindia.gov.in>.

Companies interested in inspection of data, purchase of Field Information Docket, Basin Information Docket and Data Packages and for any further details in this regard may contact:

**Directorate General of Hydrocarbons**

(Ministry of Petroleum & Natural Gas)

OIDB Bhawan, Plot No 2, Sector 73, Noida-201301,

Uttar Pradesh, India

Phone: 0120-2472000, Fax: 0120-2472049

E-mail: [dg@dghindia.gov.in](mailto:dg@dghindia.gov.in)

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

<http://www.petroleum.nic.in>

Bids shall be submitted online in Single-stage-two-envelope methodology, through e-bidding portal <https://ebidding.dghindia.gov.in> not later than 1200 hrs. IST on 18<sup>th</sup> December, 2018. All requisite documents as mentioned at Section - 3, point - XII are to be submitted in duplicate in sealed envelopes superscribed "Confidential Bid documents under Discovered Small Field policy for the Contract Area (s)....." not later than 1200hrs IST on 18<sup>th</sup> December, 2018 (Bid closing date) at DGH address mentioned above.

**For Bid evaluation, two envelope methodology will be adopted:**

- a) First envelope of bids containing bidders information excluding biddable component, shall be opened online at 1330 hrs IST on the same day. Requisite physical documents as submitted by bidders to DGH in hard copy shall also be opened at the same time at DGH office in the presence of Bidders representatives. Subsequent to Bid opening, after evaluation, qualified bidders will be shortlisted based on the Bid Rejection Criteria.
- b) Second envelope containing Biddable components, i.e. Biddable Work Programme and Biddable Revenue Share of Government will be opened online only for the shortlisted bidders at a later date to be communicated subsequently.

**Any change in the indicated schedule shall be communicated subsequently.**

Sd/-

**D. N. Misra**

**Joint Secretary to the Government of India**

**Ministry of Petroleum & Natural Gas,**

Room No. 211-B, Shastri Bhawan,

Dr. Rajendra Prasad Road,

New Delhi-110001, India

Phone: 91-11-23388764, Fax: 91-11-23383100

9<sup>th</sup> August, 2018



## IX. OTHER TERMS AND CONDITIONS

### 1. Parties to the Contract:

The Parties to the contract shall be the Government of India and the successful bidding company or consortium. The Model Revenue Sharing Contract (MRSC) may be referred to for the detailed terms and conditions.

### 2. Type of Contract:

The contract shall be a Revenue Sharing Contract in line with the Model Revenue Sharing Contract (MRSC). Each of the companies participating in a consortium must have a minimum participating interest of 10% and the percentage participating interest of each of the companies in the consortium should be specified in the bid.

### 3. Participation by Companies:

Bidding Companies will have to:

- a) Provide audited financial statements and certificate of net worth from its statutory auditors in accordance with the bid format to prove its financial capability
- b) Submit Bid Bond at the specified rates

### 4. Bid Bond:

Bidders shall be required to furnish bid bond for Rs 1.0 million at the time of submission of bid, for each Contract Area, which will be valid for one year period. If the contract is not signed by the successful bidder within 90 days after the award of the Contract Area, the bid bond will be forfeited. The bid bond of the successful bidder shall be returned only after the submission of applicable bank guarantee by company/ consortium as per Article 27 of MRSC. The bid bonds of unsuccessful bidders will be released after the Signing of contracts with successful bidders.

### 5. Bank Guarantee for Work Programme commitment

One-time Bank Guarantee (BG) valid for the Development period for the Biddable Work Programme, subject to a minimum bank guarantee for an equivalent amount of USD 0.15 Million and USD 0.23 Million for Contract Area in on-land and shallow water respectively is to be submitted by the successful bidder after signing of the Contract as per Article 27 of the MRSC.

### 6. Payment of Book Value Cost:

If the Company/Contractor comprises of parties other than the ONGC/OIL to whom the field belonged, it will be required to make a one-time payment to the ONGC or OIL, as the case may be, equivalent to the book value of the assets (like production facilities, producing/producing wells etc.) that are identified to be handed over to the Company/Contractor after the bidding, on a 'as is where is' basis. The book value amount is given in Chapter - 2 and will be payable by winning bidder to ONGC or OIL, as the case may be within six (6) months from date of signing of contract.

### 7. Repatriation of Funds:

Government of India shall permit remittances of money out of India by the company of such amounts as may be due to the company under the contract.





## 8. Liquidated Damage (LD):

The following Liquidated Damages shall be levied at the end of Development period in the event of non-drilling of Appraisal/ Development Wells for Petroleum Operations as committed in the bid.

	Onland (US\$)	Shallow water (US\$)
Per Well	1,000,000	3,000,000

## 9. Commencement of Production:

The company will commence commercial production from the contract area within three (3) years in case of Onland, four (4) years in case of shallow water Contract Areas from the Effective date as defined in the MRSC. In case, the oil and gas production does not commence within the aforesaid timelines, the area will stand relinquished.

The Government may grant up to two extensions of six (6) months each for the Contractor to commence production for reasons acceptable to Government as per Article 3 and other relevant provisions of MRSC.

## 10. Exploration Period

The Contractor will be allowed to carry out exploration activity during entire contract duration. Exploration will be at the sole risk of the Contractor/Operator.

## 11. Development Period

The drilling of Appraisal/ Development Wells bid for in the bidded Contract Area has to be completed within three (3) years in case of Onland and four (4) years in case of Shallow water offshore Contract Areas. This timeline will start from the Effective Date as defined in the MRSC.

## 12. Relinquishment

In case the oil and gas production does not commence within the timelines as given in point no. 9 above and in Article 10 of MRSC, the area will stand relinquished and the contract will be terminated. In case the production ceases for a period of more than one year at any instance after the commencement of production, Government may terminate the contract.

## 13. Biddable Work Obligation

The companies will be required to bid for the number of Appraisal / Development Wells for the Contract Area and required to carry out the Biddable Work Program within the timelines as mentioned in point No. 11 above and in Article 3 of MRSC.

## 14. Contract Duration:

The contract duration for development and production from the offered Contract Areas would be a maximum of twenty years (20) from the effective date as defined in MRSC or till economic life of the Contract Area as submitted in the Bid, unless the Contract is terminated earlier in accordance with its terms. Contract may be extended upon mutual agreement between the Parties for a further period not exceeding ten (10) years. Contract can also be terminated earlier by Government of India if the production from the offered Contract Area ceases for a period of over one (1) year at any instance.



### **15. Mining Lease/Petroleum Exploration License:**

Current Mining Lease holder will be required to transfer/assign the Mining Lease (ML) or Petroleum Exploration License (PEL) along with all available clearances to the Contractor, to the extent legally possible, or else the Contractor has to obtain the same. The effective date has been defined in MRSC. Lease/License rent/fees will be governed as per ORD Act 1948 and P&NG Rules 1959 as amended from time to time.

### **16. Revenue Share**

The revenue share offered to Govt. of India (GOI) by the bidder at the Lower Revenue Point (LRP), which is equal to or less than US \$ 0.0100 Million per day and at the Higher Revenue Point (HRP), which is equal to or more than US \$ 1.0000 Million per day will be considered for evaluation purposes.

### **17. Valuation**

For valuation of crude, condensate and natural gas, refer the Article 19 of MRSC.

### **18. Domestic Supply**

The contractor shall be required to sell 100% of the company's entitlement to crude oil and natural gas from the Contract Area in the Domestic Market till India becomes self-reliant.

### **19. Gas and Crude Oil Pricing:**

The Contractor will be free to sell Natural Gas produced from Contract Area exclusively in domestic market through a transparent bidding process on Arm's Length Sales Principle. The Government share of revenue shall be calculated at price actually obtained or the price calculated based on the Domestic Natural Gas Pricing Guidelines issued by the Government from time to time whichever is higher as provided in Article 19 of the MRSC.

The Contractor will be free to sell Crude Oil and Condensate produced from Contract Area exclusively in domestic market through a transparent bidding process on Arm's Length Sales Principle. However, the Government share of revenue shall be calculated at a price actually obtained or the price of Indian Basket of Crude Oil as calculated by Petroleum Planning and Analysis Cell on a monthly basis whichever is higher as provided in Article 19 of the MRSC.

### **20. Assignment**

Assignments as provided under article 26 of the MRSC are permitted with prior approval of the Government of India. Approvals for requests for assignment would not be unreasonably withheld, subject to suitable guarantees as may be required, depending on the nature of the assignment. Government shall respond on an assignment application within 120 days from the receipt of application, failing which application shall be deemed to have been approved.

### **21. Management Committee:**

A Management Committee (MC) will be constituted as per article 6 of the MRSC with representatives from Govt./DGH and Contractor. Government shall nominate two (2) member representing Government in the Management Committee, whereas each Company constituting Contractor shall nominate one (1) member each to represent Company in the Management Committee or two (2) members in case contractor is a single party.

### **22. Royalty:**

The following Royalty rates will be applicable as per relevant notification:





Type of hydrocarbons	Royalty rates (Crude Oil)	Royalty rates (Gas & CBM)
Onland	12.5%	10.0%
Shallow water	7.5%	7.5%

**23. Oil Cess:**

Oil cess is not applicable

**24. Customs Duty:**

Customs duty is exempted on import of specific goods and services for Petroleum operations.

**25. Bonuses:**

There shall be no signature, discovery or production bonus.

**26. Income Tax:**

Income Tax for the Contract Area will be governed by the prevailing Income tax act as amended from time to time.

**27. Data:**

All data gathered during the course of operation under this contract shall be the property of the Government of India.

**28. Local Preference:**

The Company shall give preference to the use of Indian goods and services subject to quality, schedule, availability and competitive pricing.

**29. Employment & Training:**

The company shall give preference to the employment of qualified Indian nationals and shall undertake appropriate training Programs.

**30. Transfer of Technology:**

At the request of the Government, the Company shall endeavour to render technical assistance to the Government of India or its nominees, upon negotiations.

**31. Applicability of Laws:**

Contract shall be governed by the applicable Indian laws.

**32. Arbitration:**

Arbitration procedures shall be as per the Indian law and will be held in India.

**33. General:**

The English language shall be the language of the contract.

**34. Right to accept Bids:**

Government of India reserves for itself the right to accept or reject any or all the bids at its sole discretion.

**35. Right to ask clarifications on the bids:**

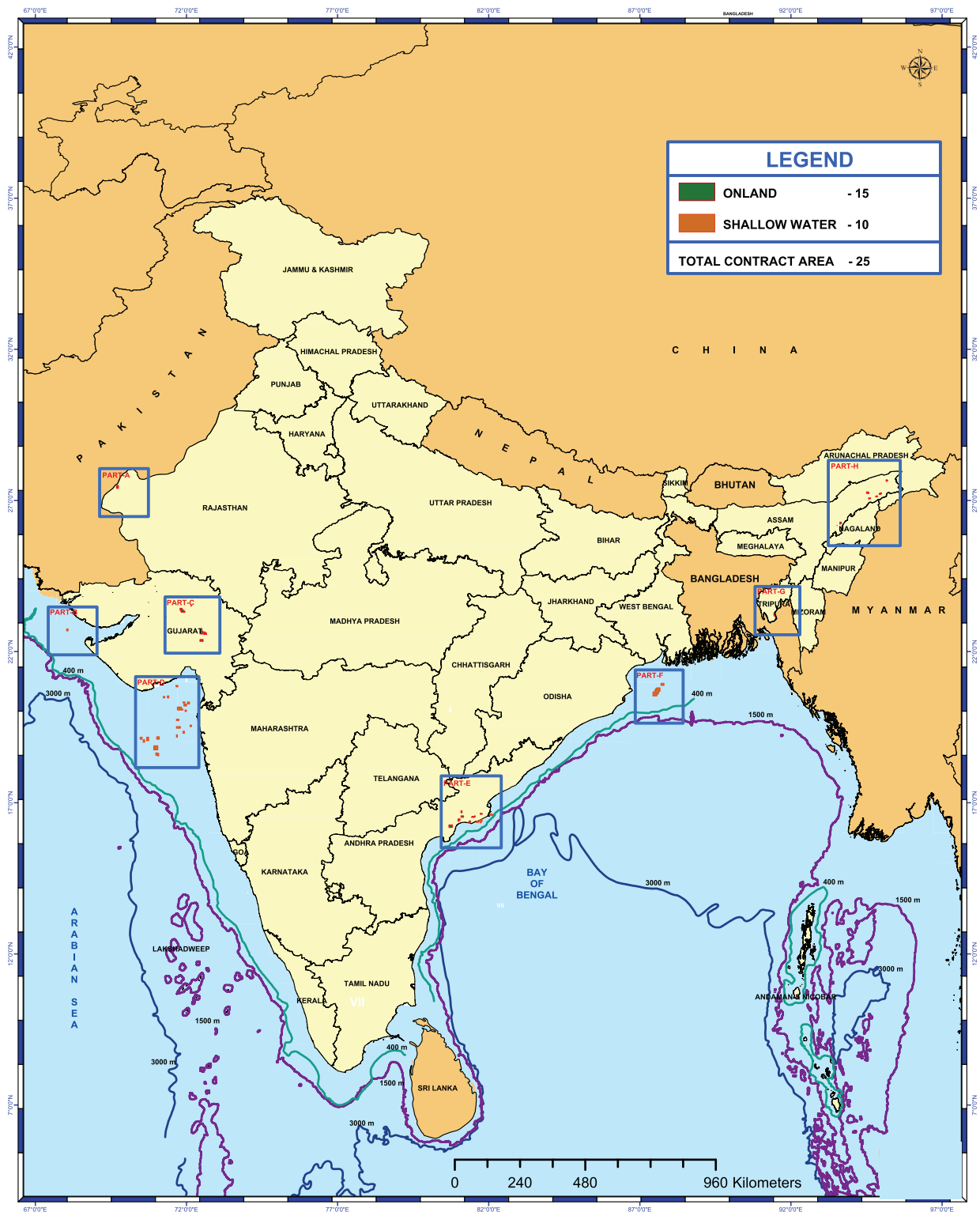
Government may ask any clarification(s) from the bidding companies in order to evaluate the bids.

**36. Consequence of furnishing false/misleading information / data:**

Later on, at any stage after evaluation of the bids, if any information or data is found to be false or misleading or the bidder has suppressed any material fact which formed part of bid evaluation, the bid shall be liable to be rejected, and in case of award of Contract Area or execution of the contract, the award shall be withdrawn or the contract shall be liable for cancellation.

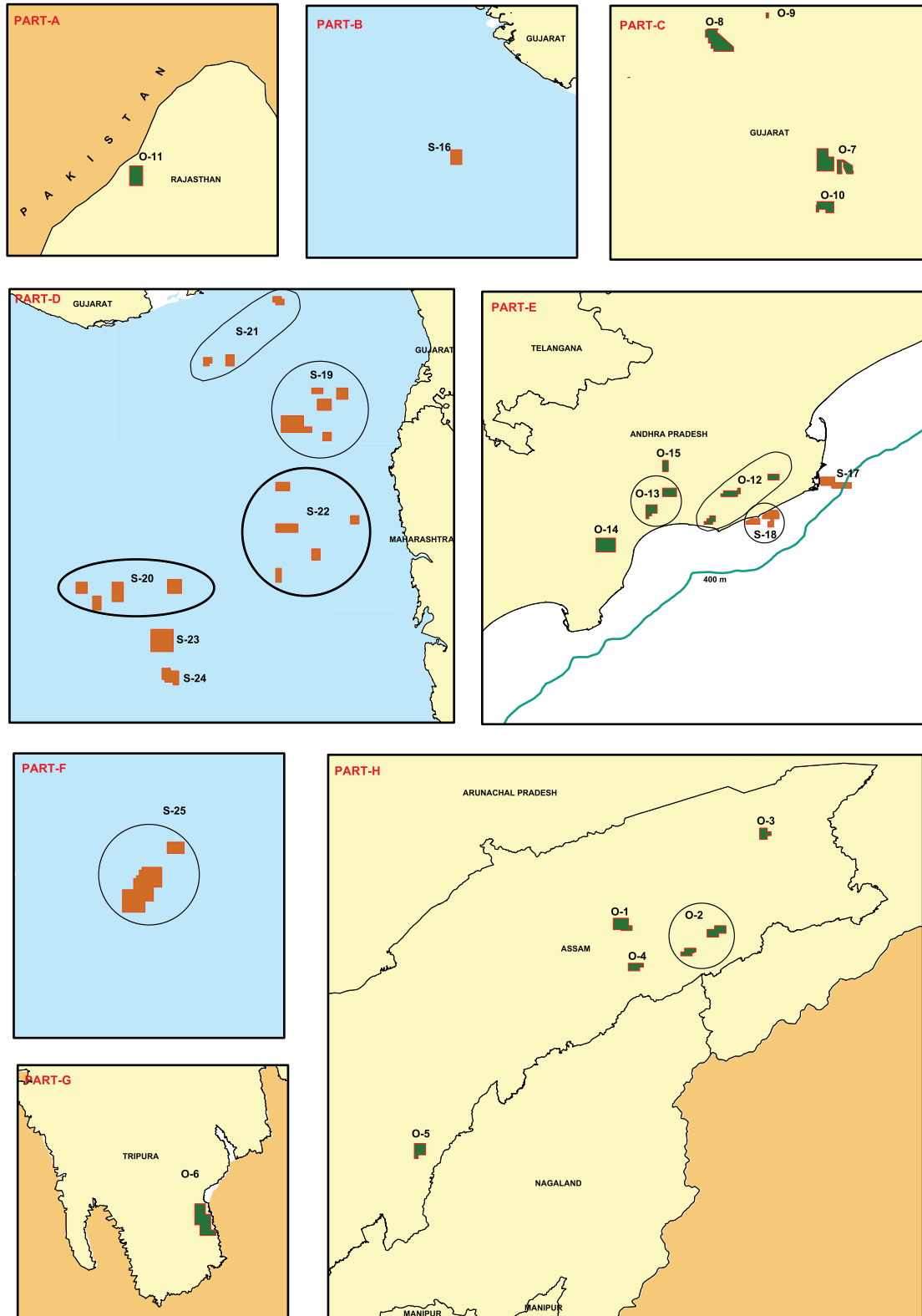


## X. DISCOVERED SMALL FIELDS ON OFFER UNDER DISCOVERED SMALL FIELD POLICY





## XI. LOCATION MAP OF DISCOVERED SMALL FIELDS







## XII. DETAILS OF CONTRACT AREAS ON OFFER

S.No.	Basin / Location	Contract Area Name	Map Ref. No.	Field Name	Area, Sq. km (Approx)
1	Assam Shelf/Assam	AA/ONDSF/Madhakali/2018	0-1	Haldibari Madhakali	41.93
2		AA/ONDSF/Umatara/2018	0-2	South Rajgarh Umatara	18.49 33.54
3		AA/ONDSF/Disaijan/2018	0-3	Disaijan	21.26
4		AA/ONDSF/Tiphuk/2018	0-4	Tiphuk	21.37
5		AA/ONDSF/Hazarigaon/2018	0-5	Hazarigaon	30.74
6	Assam-Arakan Fold Belt/Tripura	AA/ONDSF/Tulamura/2018	0-6	Tulamura	47.23
7	Cambay Basin/ Gujarat	CB/ONDSF/Vadatal/2018	0-7	Vadatal-10 Vadatal-11	62.17 132.8
8		CB/ONDSF/A1/2018	0-8	NTPC-A1	151.99
9		CB/ONDSF/Sanganpur/2018*	0-9	Sanganpur	4.49
10		CB/ONDSF/D45/2018	0-10	D-45	66.82
11	Rajasthan	RJ/ONDSF/Chinnewala/2018	0-11	Chinnewala Tibba Chinnewala Tibba-2	73.00
12	KG Onland/Andhra Pradesh	KG/ONDSF/Palakollu/2018	0-12	Lankapalem	19.68
				Turputullu	26.25
				Palakollu	22.97
				Mummidivaram	26.24
		13	KG/ONDSF/Suryaraopeta/2018	0-13	Pendurru
	Suryaraopeta-4	49.18			
14	KG/ONDSF/Kaza/2018	0-14	Kaza	114.93	
15	KG/ONDSF/Gokarnapuram/2018	0-15	Gokarnapuram	26.21	
16	Kutch Offshore	GK/OSDSF/GK39/2018	S-16	GK-39	37.92
17	KG Offshore	KG/OSDSF/G4/2018	S-17	YS-5	91.85
				G-4-6	
		KG/OSDSF/GSKW/2018	S-18	GS-70	64.57
				GS-48-1	
GS-KW-5					
GS-69					
18	GS-KW-6	29.36			
19	Mumbai Offshore	MB/OSDSF/CA/2018	S-19	ED-4	28.95
	TP	25.69			
	SD-1	173.65			
	SD-1-5				

\* Any liability arising out of pending litigation/ liquidation cases as regards existing assets and facilities of the field will be borne by the successful bidder.





S.No.	Basin / Location	Contract Area Name	Map Ref. No.	Field Name	Area, Sq. km (Approx)
				CD	64.27
				CA	
				SD-14	
				SD-4	51.39
20		MB/OSDSF/D31/2018	S-20	B-192A	90.59
				D-31	48.55
				D-12	51.76
				BH-67	80.87
21		MB/OSDSF/NMT/2018	S-21	C-37	38.49
				C-43	25.66
				NMT	32
22		MB/OSDSF/SB15/2018	S-22	B-163	29.04
				BNP-2	77.61
				SB-15	32.39
				B-14	48.35
				PER	38.77
23		MB/OSDSF/D33/2018	S-23	D-33	207.55
24		MB/OSDSF/D18/2018	S-24	D-18	90.86
25	Bengal-Purnea Basin/ Mahanadi Offshore	NEC/OSDSF/D11/2018	S-25	D-9	464.66
				D-10	
				D-11	
				D-15	
				D-20	
				D-21	76.78

Further details of contract area are given in respective Information Docket.



### XIII. PEL/PML/OPEN ACREAGE STATUS OF DISCOVERED SMALL FIELDS ON OFFER

S. No.	Basin/ Location	Contract Area Name	Field Name	Lease held by	PML/PEL/Open Acreage	Validity of Lease
1	Assam Shelf/ Assam	AA/ONDSF/Madhakali/2018	Haldibari Madhakali	OIL	Moran & Dibrugarh Ext.	09.01.2021
2		AA/ONDSF/Umatara/2018	South Rajgarh Umatara	OIL OIL	Moran Extn. DumdumaExtn PEL	31.10.26
3		AA/ONDSF/Disaijan/2018	Disaijan	OIL	Baghjan	13.05.23
4		AA/ONDSF/Tiphuk/2018	Tiphuk	ONGC	Banamali+Lakwa+ Laiplingaon+Open acreage	16.12.22/ 28.09.28/ 12.10.23
5		AA/ONDSF/Hazarigaon/2018	Hazarigaon	ONGC	GolaghatExtn-IIA +GolaghatExtn IIA Additional (7 year)+Open Acreage	08.12.24/ 20.11.19
6	Assam - Arkan Fold Belt/Tripura	AA/ONDSF/Tulamura/2018	Tulamura	ONGC	Tulamura+tulamura (Addl-7 Year)+West Tripura PML (7 Year)+ Open Acreage	19.11.29/ 20.11.19
7	Cambay Basin/ Gujarat	CB/ONDSF/Vadatal/2018	Vadatal-10 Vadatal-11	ONGC ONGC	CB-ONN-2004/2, Open Acreage	NA NA
8		CB/ONDSF/A1/2018	NTPC-A1	Open Acreage	Open Acreage	NA
9		CB/ONDSF/Sanganpur/2018	Sanganpur	Open Acreage	Open Acreage	NA
10		CB/ONDSF/D45/2018	D-45	Open Acreage	Open Acreage	NA
11	Rajasthan	RJ/ONDSF/Chinnewala/2018	Chinnewala Tibba Chinnewala Tibba-2	ONGC ONGC	Chinnewala Tibba, South Kharatar (Part A+Part-B)	14.10.23 24.03.31
12	KG Onland/ Andhra Pradesh	KG/ONDSF/Palakollu/2018	Lankapalem	ONGC	Godavari Onland	31.12.19
			Turputullu	ONGC	Godavari Onland+ Turputullu	31.12.19/ 20.11.19
			Palakollu	ONGC	Godavari Onland+ Medapadu	31.12.19/ 07.07.32/
			Mummidiva ram	ONGC	Godavari Onland	31.12.19
13		KG/ONDSF/Suryaraopeta/2018	Pendurru	ONGC	West Godavari +Maleswaram+ BantumiliExtn.	31.12.19/ 21.11.31/ 04.01.19
			Suryaraopeta- 4	ONGC	Suryaraopeta, Godavari Onland+West Godavari	29.07.22/31.12 .19/31.12.19
14		KG/ONDSF/Kaza/2018	Kaza	ONGC	West Godavari	31.12.19
15		KG/ONDSF/Gokarnapuram/2018	Gokarnapuram	ONGC	West Godavari+Godavari Onland+Open Acreage	31.12.19/ 31.12.19





S. No.	Basin/ Location	Contract Area Name	Field Name	Lease held by	PML/PEL/Open Acreage	Validity of Lease	
16	Kutch Offshore	GK/OSDSF/GK39/2018	GK-39	ONGC	GK-28 Additional+Open Acreage	20.11.19	
17	KG Offshore	KG/OSDSF/G4/2018	YS-5	ONGC	Yanam+Yanam Additional+Godavari +Open Acreage	18.11.29/ 20.11.19	
			G-4-6	ONGC			
18		KG/OSDSF/GSKW/2018	KG/OSDSF/GSKW/2018	GS-70	ONGC	Vaineiyam-VaineteyamExtn+GS-15 & GS-23 + Open Acreage	19.09.23/ 10.01.29/ 03.09.18
				GS-48-1	ONGC		
				GS-KW-5	ONGC		
				GS-69	ONGC		
		GS-KW-6	ONGC	Vaineteyam+ VaineteyamExtn + GS-15 & GS-23	19.09.23/ 10.01.29/ 03.09.18		
19	Mumbai Offshore	MB/OSDSF/CA/2018	ED-4	ONGC	BOFF-IA	02.01.2020	
			TP	ONGC	BOFF-IA	02.01.2020	
			SD-1	ONGC	BOFF-IA	02.01.2020	
			SD-1-5	ONGC			
			CA	ONGC	BOFF-IA	02.01.2020	
			SD-14	ONGC			
			SD-4	ONGC	BOFF-IA+OpenAcerage	02.01.2020	
20	Mumbai Offshore	MB/OSDSF/D31/2018	B-192A	ONGC	SWMH+OpenAcerage	31.03.26	
			D-31	ONGC	SWMH Field	31.03.26	
			D-12	ONGC			
		BH-67	ONGC	BOFF-IF+Mumbai High ML+MH South Additional	02.01.20/ 07.01.26/ 20.11.19		
21	Mumbai Offshore	MB/OSDSF/NMT/2018	C-37	ONGC	C-37+C-37 Additional	11.09.27/ 20.11.19	
			C-43	ONGC	C-37	11.09.27	
			NMT	ONGC	BOFF-IC	02.01.2020	
22	Mumbai Offshore	MB/OSDSF/SB15/2018	B-163	ONGC	BOFF-IA+OpenAcerage	02.01.2020	
			BNP-2	ONGC	BOFF-IA+OpenAcerage	02.01.2020	
			SB-15	ONGC	West of Bassein	31.03.26	
			B-14	ONGC	B-55+BOFF-IA+Open Acerage	29.06.19/~	
			PER	ONGC	BOFF-IA	02.01.2020	
23	Mumbai Offshore	MB/OSDSF/D33/2018	D-33	ONGC	D-33+D-33 Additional	04.09.26/ 20.11.19	
24	Mumbai Offshore	MB/OSDSF/D18/2018	D-18	ONGC	D-18	31.12.24	
25	Mahanadi Offshore	MN/OSDSF/D11/2018	D-9	Open Acreage	NA	NA	
			D-10				
			D-11				
			D-15				
			D-20				
			D-21				



#### XIV. BASINWISE DISTRIBUTION OF DISCOVERED SMALL FIELDS ON OFFER

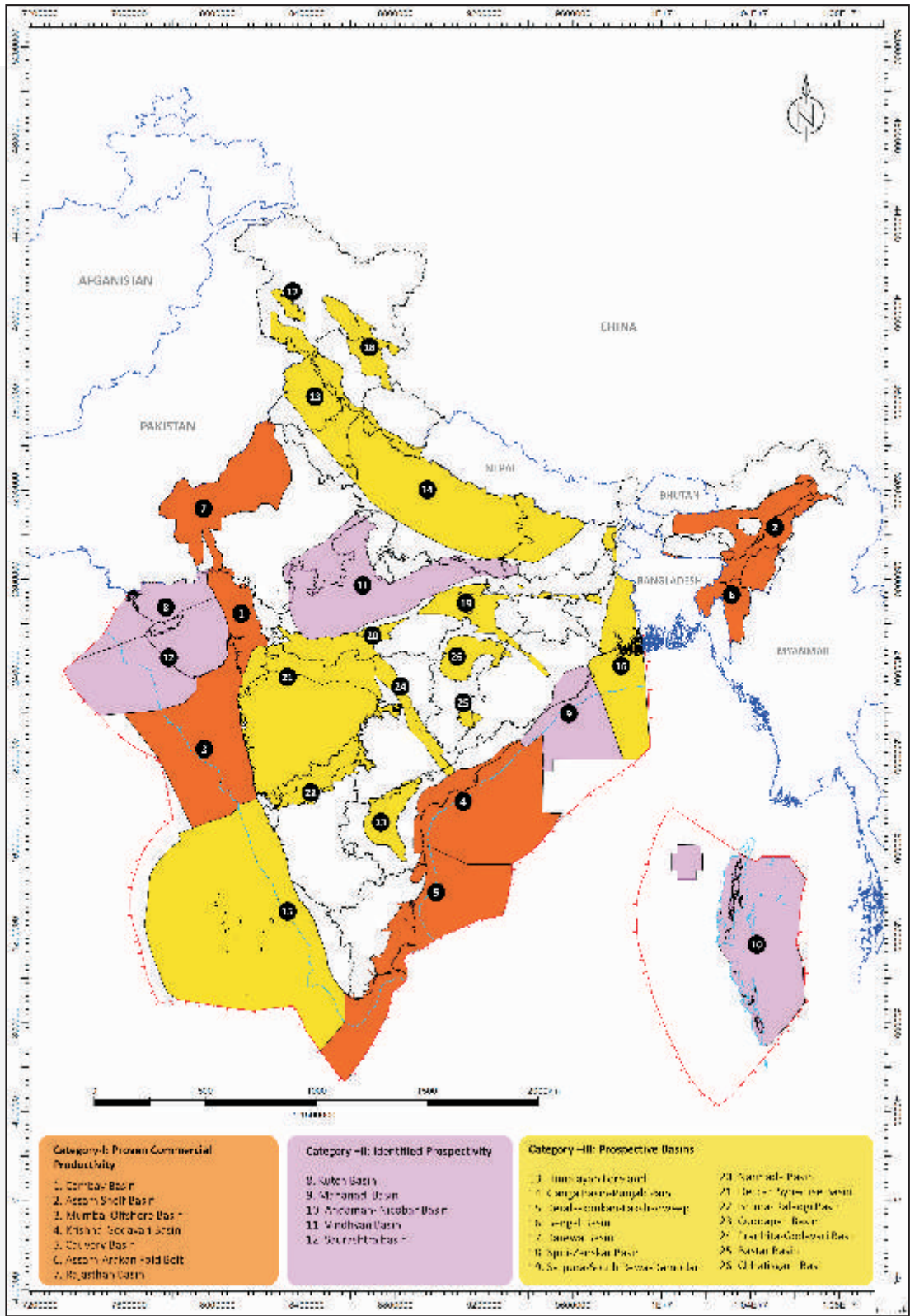
S.No.	Basin	No. of Fields	Name of Discovered Small Fields
1	Krishna Godavari	08 (Onland) + 07(Shallow Water)=15	Lankapalem, Turputullu, Palakollu, Mummidivaram, Pendurru, Suryaraopeta-4, Kaza, Gokarnapuram, YS-5, G-4-6, GS-70, GS-48-1, GS-69, GS-KW-5, GS-KW-6.
2	Assam Shelf	7	Haldibari, Madhakali, South Rajgarh, Umatara, Disaijan, Hazarigaon, Tiphuk
3	Rajasthan	2	ChinnewalaTibba, Chinnewala Tibba-2
4	Assam Arakan Fold Belt	1	Tulamura
5	Cambay	05	Vadatal-10, Vadatal-11, NTPC-A1, Sangapur, D-45
6	Kutch	1	GK-39
7	Mumbai Offshore	22	ED-4, TP, SD-1, SD-1-5, CA, SD-14, CD, SD-4, B-192A, D-31, D-12, C-37, C-43, B-163, D-18, PER, D-33, BH-67, BNP-2, SB-15, NMT, B-14.
8	Bengal-Purnea Basin/Mahanadi Offshore	6	D-9, D-10, D-11, D-15, D-20, D-21

1. Discovered Small Fields, on offer, distributed in eight (08) Sedimentary Basins.
2. Six Basins in Category I and rest two [02] Basins falling in Category-II& Category-III





## SEDIMENTARY BASINS OF INDIA





## XV. CATEGORIZATION OF TOTAL SEDIMENTARY BASINS

Basin Area is Sq Km, Current Study (2017)

Sl. No.	Category	Basin	Total Basin Area	Onland	Shallow Water (Up to 400m Isobath)	Deep Water (beyond 400m Isobath)
1	I	Cambay	53,500	48,882	4,618	.....
2		Assam Shelf	56,000	56,000	.....	.....
3		Mumbai Offshore	212,000	.....	118,389	93,611
4		Krishna Godavari	230,000	31,456	25,649	172,895
5		Cauvery	240,000	37,825	43,723	158,452
6		Assam Arakan Fold Belt	80,825	80,825	.....	.....
7		Rajasthan	126,000	126,000	.....	.....
<b>SUB TOTAL</b>			<b>998,325</b>	<b>380,988</b>	<b>192,379</b>	<b>424,958</b>
8	II	Kutch	58,554	30,754	20,500	7,300
9		Mahanadi	99,500	15,500	14,211	69,789
10		Andaman-Nicobar	225,918	.....	18,074	207,844
11		Vindhyan	202,888	202,888	.....	.....
12		Saurashtra	194,114	75,076	42,617	76,421
<b>SUB TOTAL</b>			<b>780,974</b>	<b>324,218</b>	<b>95,402</b>	<b>361,354</b>
13	III	Himalayan Foreland	30,110	30,110	.....	.....
14		Ganga-Punjab Plains	304,000	304,000	.....	.....
15		Kerala-Konkan-Lakshadweep	580,000	.....	90,380	489,620
16		Bengal-Purnea	121,914	42,414	33,465	46,035
17		Karewa	6,671	6,671	.....	.....
18		Spiti-Zaskar	32,000	32,000	.....	.....
19		Satpura-South Rewa-Damodar	57,180	57,180	.....	.....
20		Narmada	95,215	95,215	.....	.....
21		Deccan Synclise	237,500	237,500	.....	.....
22		Bhima Kaladgi	14,100	14,100	.....	.....
23		Cuddapah	40,100	40,100	.....	.....
24		Pranhita-Godavari	30,000	30,000	.....	.....
25		Bastar	5,360	5,360	.....	.....
26		Chhattisgarh	32,000	32,000	.....	.....
<b>SUB TOTAL</b>			<b>1,586,150</b>	<b>926,650</b>	<b>123,845</b>	<b>535,655</b>
<b>TOTAL AREA (Sq. Km.)</b>			<b>3,365,449</b>	<b>1,631,856</b>	<b>411,626</b>	<b>1,321,967</b>





## XVI. GEOLOGICAL SET-UP OF SEDIMENTARY BASINS OF OFFERED CONTRACT AREAS

### 1. ASSAM SHELF BASIN

Assam Shelf basin is a petroliferous province, characterized primarily by siliciclastic deposits of shelf margin, situated in the North-East region of Indian peninsula. The basin, falling within the state of Assam is peri-cratonic and passive margin with the signature of compressional tectonics during Himalayan orogeny. The basin hosts thick pile of Tertiary sediments, ranging from Paleocene to Recent which overlies the basement consisting of Granitic and Metamorphic complex. Gondwana sediments are exposed in the western extremity of Garo Hills, consisting of gritty sandstones, carbonaceous shale and lenticles of coal. The basin unconformably overlies the basement and extends up to the northern bank of Brahmaputra river, covering an area of 56,000 sq.km.

The Assam Shelf basin is still under active exploration stage. Commercial hydrocarbon occurrences, besides basement, are spread over different stratigraphic intervals ranging from the oldest sediments of Paleocene (Tura) to the youngest sediments of Pliocene (Girujan). Several oil and gas fields have been discovered with structural, stratigraphic and strati-structural entrapment conditions. The hydrocarbon accumulations often indicate charging from multiple source sequences.

The 2017 study of hydrocarbon resource reassessment integrated 2,723 LKM of 2D seismic, 10,995 SKM of 3D seismic and 275 wells, which were all used to build static geological model, that were input to 3D Petroleum System Modelling ("PSM"). The basin has generated considerable volume of hydrocarbons under Naga-Schuppen fold-thrust belt.

The total estimated hydrocarbon in place stands to be 6,001 MMTOE, out of which 1,868 MMTOE has been discovered and a considerable potential of 4,133 MMTOE still remains to be tapped.

**Datasets:** The basin is highly explored with good seismic coverage. Geochemical, 2D/3D seismic, well data and reports are excellent while gravity data are good and magnetic data are fair. 3D PSM method has been used to assess hydrocarbon resources due to good quality data existing throughout the basin.

**Petroleum plays:** 8 plays are present within Basement and Tertiary. Biggest challenge is that mature source rocks lie below the Naga thrust belt, which, nevertheless can be future focus for exploration. Shallow play near Naga-Schuppen belt is recommended target for exploration.

**Five (05) Contract Areas are on offer in this basin (The details are given in the respective Information Docket and in Data Package).**

### 2. ASSAM ARAKAN FOLD BELT BASIN

The basin is characterized primarily by siliciclastic deposit of fluvial to shelf margin setup, situated in the North-East region of Indian peninsula. Assam Arakan Fold Belt basin is a peri-cratonic, passive margin basin with the signature of compressional tectonics during Himalayan Orogeny. The basin cuts through the states of North-East India (Arunachal Pradesh, Assam, Nagaland, Manipur, Mizoram and Tripura). The basin hosts thick pile of Tertiary sediments, ranging from Paleocene to Recent which overlies the Archean basement consisting





of granitic and metamorphic rocks. The basin includes Tripura-Cacchar Fold Belt and Naga-Schuppen belt, covering an area of 80,825 sq.km.

The basin is currently under active exploration stage. Commercial hydrocarbon occurrences are mainly encountered within Miocene and Pliocene formation except some small discoveries in Oligocene and Eocene sequences, apart from Pre-Cambrian fractured basement. Several gas fields have been discovered within the structural closure while hydrocarbon accumulations often indicate charging from deeper sequence.

In the 2017 study of petroleum resource reassessment, 15,000 LKM of 2D seismic and 1,400 SKM of 3D seismic data were integrated along with information from 317 drilled wells. The study used both conventional 3D Petroleum System Modelling and Areal Yield methodology depending upon availability of adequate or limited/no data. The hydrocarbon accumulation in the Tripura-Cacchar fold belt is estimated to be 1,233 MMTOE and the Naga Schuppen Belt was assessed using Areal Yield method due to limited data with an estimated petroleum in place of 400 MMTOE.

The total estimated hydrocarbon in place stands to be 1,633 MMTOE, out of which 178 MMTOE has been discovered and a considerable potential of 1,455 MMTOE still remains to be explored.

**Datasets:** Both 3D PSM and Aerial Yield method were used to initiate hydrocarbon resource assessment due to fair-to-good data in some parts and conceptual information in rest of the basin. Gravity, well data and reports are good while magnetic, geochemical and 2D/3D data are fair. Data availability is better in Tripura-Cachhar while it is poor in rest of the basin.

**Petroleum plays:** 9 plays within Eocene-to-Pliocene are present. There is inadequate coverage of data in major part of the basin. The fact that structural traps primarily formed since Miocene, sequential restoration and migration of thrusts can be focus area. Detail structural restoration and analysis, close grid seismic API and regional velocity modelling are a few recommended follow-ups.

**One (01) Contract Areas are on offer in this basin (The details are given in the respective Information Docket and in Data Package).**

### 3. CAMBAY BASIN

The basin is characterized primarily by siliciclastic rift-fill sediments, situated in the western region of Indian peninsula. Cambay basin, falling mostly in the state of Gujarat is a peri-cratonic rift basin with the signature of inversion tectonics during Himalayan Orogeny. The basin hosts thick pile of Tertiary sediments, ranging from Paleocene to Recent which is overlying the Deccan Trap. The basin covers an area of 53,500 sq km, of which 4,618 sq km lies in the Gulf of Cambay.

The Cambay basin is, though, enough exploited, there are still targets for active exploration. Commercial hydrocarbon occurrences, besides Trap basement, are spread over different stratigraphic intervals ranging from the oldest sediments of Paleocene to the youngest sediments of Miocene. Several oil and gas fields have been discovered with structural, stratigraphic and strati-structural entrapment conditions, out of which 75% of the discoveries has been made in Middle Eocene.

The 2017 study petroleum resource reassessment has integrated 15,000 LKM of 2D seismic and 670 drilled well information. The 3D seismic data, though sufficiently available, were not used





due to availability of close-spaced 2D seismic lines. The results show 2,586 MMTOE of accumulated hydrocarbons, out of which 1,800 MMTOE has been discovered/ established and a potential of 786 MMTOE still to be chased for.

**Datasets:** Extensive 3D seismic data are available, however highly dense 2D lines were only used for 3D PSM. There is good data control to construct 3D static geological models. Gravity, geochemical, 2D/3D seismic, well data and reports are excellent while magnetic data are fair. Reliability of results is excellent due to good quality seismic and well data.

**Petroleum plays:** 7 plays within Basement, Paleocene, Eocene and Miocene were mapped and reassessed. Prospectivity for Mesozoic remains open as quality of seismic data below basalts is not adequate. Paleogene plays in Akholjuni and Gandhar can be focus area. High resolution studies and detailed facies analysis are recommended for strati-structural prospects.

**Four (04) Contract Areas (04 Onland) are on offer in this basin (The details are given in the respective Information Docket and in Data Package).**

#### 4. KUTCH BASIN

The basin is characterized primarily by silica clastic shelf margin sediments, situated along the west coast of Indian peninsula. Kutch basin, like other west coast basins of India, is a pericratonic, rift/extensional-passive margin basin. This basin hosts a thick pile of sediments, mainly ranging from Jurassic to Recent. The basin's onland part is mostly covered by the Mesozoic sediments ranging from Jurassic to Cretaceous. The basin extends into offshore areas of Arabian Sea covering a total area of 58,554 sq.km across onland (30,754) shallow water (20,500) and deepwater areas (7,300).

The Kutch basin is currently under active exploration stage. Commercial hydrocarbon occurrences spread over the Mesozoic-Tertiary stratigraphic interval ranging from the oldest sediments of Late Cretaceous below the trap to the youngest sediments of Mid Miocene, geographically distributed over onland and offshore areas. Several gas discoveries have been made with strati-structural entrapment conditions. The hydrocarbon accumulations often indicate charging from multiple source sequences.

The 2017 study on hydrocarbon resource reassessment has been integrated with Saurashtra basin due to geological commonality and it integrates 95,576 LKM of 2D seismic (combined with Saurashtra basin) and 68 drilled well information. The study followed 3D petroleum system modelling in the offshore area and areal yield methodology in the onland part.

In the Kutch basin, the assessment results show 898 MMTOE of accumulated hydrocarbons, out of which 71 MMTOE has been discovered and a considerable potential of 827 MMTOE still remaining under undiscovered category.

**Datasets:** Both 3D PSM and Aerial Yield were used. 2D seismic data are available combined with Saurashtra Basin. Gravity, geochemical, 2D/3D seismic, well data are good while magnetic data are fair, however available reports are excellent.

**Petroleum plays:** 17 plays within Mid Jurassic-to-Cretaceous in Onland and Mid Jurassic-to-Trap-to-Mid Miocene in Offshore were mapped. Poor sub-basalt imaging is a major deterrent for assessing Mesozoic geology, which, nevertheless can be a major thrust of exploration. Acquisition of close-grid 2D seismic long-offset data is recommended, followed by 3D campaigns.



**One (01) Contract Area is on offer in this basin (The details are given in the respective Information Docket and in Data Package).**

## 5. RAJASTHAN BASIN

This basin is situated in the western region of Indian peninsula and it encompasses geologically distinct 3 sub-basins namely, Barmer (Tertiary) towards south, Jaisalmer (Mesozoic) in the west, Bikaner (Proterozoic) in the north. Sediments include rift-fill siliciclastic deposits in Barmer, siliciclastic to carbonate deposits in shelf margin set-up in Jaisalmer and Bikaner. Rajasthan basin is a peri-cratonic basin with rift set-up in Barmer and passive margin/rift set-up in Jaisalmer and Bikaner, falling within the state of Rajasthan. The Barmer sub-basin hosts a thick pile of Tertiary sediments, ranging from Cretaceous (Ghaggar-Hakra) to Eocene (Thumbli). The Jaisalmer sub-basin was built with the sequence of Permo-Triassic to Tertiary sediments of Eocene. In the Bikaner sub-basin, the sediments are dominated by mainly Neo-Proterozoic sedimentation. The basin extends over a total area of 126,000 sq.km that is spread across three sub-basins of Barmer, Jaisalmer and Bikaner.

The Rajasthan basin is currently under active exploration stage. Commercial hydrocarbon occurrences, besides Trap and Archean basement, are found in different stratigraphic intervals ranging from the oldest sediments of Infra-Cambrian (Upper Jodhpur from Bikaner), Late Jurassic (Baisakhi-Badesar from Jaisalmer) and Cretaceous (Ghaggar-Hakra from Barmer) to the youngest sediments of Paleocene and Eocene (Barmer Hill, Fatehgarh, Thumbli from Barmer and Bandah, Khuiala from Jaisalmer). Several oil and gas fields have been discovered with structural, stratigraphic and strati-structural entrapment conditions of which majority of the discoveries are hosted by tertiary sediments of Barmer sub-basin.

The 2017 study of resource reassessment integrates 6,596 LKM of 2D seismic and 2,515 SKM of 3D along with 200 drilled well information in Barmer; 19,750 LKM of 2D seismic and 7,350 SKM of 3D along with 154 drilled well information in Jaisalmer; 4,696 LKM of 2D seismic and 3,785 SKM of 3D along with 36 drilled well information in Bikaner.

The results show 4,126 MMTOE of accumulated hydrocarbons in the entire Rajasthan Basin (Barmer 2,772 MMTOE, Jaisalmer 897 MMTOE, Bikaner 458 MMTOE). Barmer sub-basin has 829 MMTOE discovered in place with 1,943 MMTOE undiscovered. Similarly, an in place of 94 MMTOE has been discovered in Jaisalmer sub-basin with 803 MMTOE remaining still undiscovered. The Bikaner sub-basin has established in place of 15 MMTOE with undiscovered potential of 443 MMTOE.

**Datasets:** 3D PSM were used to initiate assessment of hydrocarbon resources due to adequate data. Data have fair-to-good coverage. Gravity, geochemical data and reports are good while magnetic, 2D/3D seismic, well data are fair.

**Petroleum plays:** 7 plays within Basement, Cretaceous, Volcanics, Paleocene-Eocene have been mapped in Barmer sub-basin; 9 plays within Jurassic-Cretaceous, Paleocene-Eocene in Jaisalmer sub-basin and 3 plays within Pre-Cambrian in Bikaner sub-basin. In general, velocity modelling is challenging due to scarcity of appropriate well data. Permo-Triassic & Jurassic plays in Jaisalmer and Cretaceous (Ghaggar-Hakra) plays in Barmer can be areas of focus. High quality API of close grid seismic is recommended.

**One (01) Contract Area is on offer in this basin (The details are given in the respective Information Docket and in Data Package).**





## 6. KRISHNA-GODAVARI BASIN

Krishna-Godavari is characterized by primarily siliciclastic shelf margin and situated along the east coast of Indian peninsula, lying between Mahanadi basin in the north and Cauvery basin towards south. It is a dual-rift province with the Late Jurassic-rift having resulted in NE-SW trending passive margin basin orthogonally superimposed over the NW-SE trending GondwanaPranhita-Godavari basin. The KG basin consists of sediments ranging in age from the Early Permian to Recent. The basin's onland part is mostly covered by the alluviums deposited by the two major river systems, viz., Godavari and Krishna and several stratigraphic sequences including Lower Gondwanas that are outcropped near the basin margin. The basin has an area of 230,000 sq km which has onland spread of 31,456 sq km, shallow offshore of 25,649 sq km and deepwater of 172,895 sq km with a maximum sediment thickness of more than 7,000m.

Commercial hydrocarbon occurrences spread over a wide stratigraphic horizons ranging from Permian to Pliocene with geographical distribution over onland, offshore including ultradeep bathymetry. Several oil and gas fields have been discovered both in onland and offshore with structural, stratigraphic and strati-structural entrapment conditions. The reservoirs are primarily sandstones with isolated occurrences in limestone and unconventional reservoirs like fractured basalts. Effective source rocks are identified to be the shales of Permian to Eocene. The hydrocarbon accumulations often indicate charging by more than one source and potential of biogenic plays is significant. The exploration thrust in the basin has resulted in discovery of large to medium and small-sized oil and gas pools in both onland and offshore areas of shallow, deep and ultradeep waters.

Under 2017 project of resource reassessment, the study integrated 85,300 LKM of 2D seismic, 68,000 SKM of 3D seismic and 770 drilled well information. The results show 9,555 MMTOE of accumulated hydrocarbon in place, out of which 1,977 MMTOE has been discovered and a considerable potential of 7,578 MMTOE still remaining undiscovered.

**Datasets:** 3D PSM were used due to good data control for making robust 3D static geological model. Gravity, geochemical, 2D/3D seismic, well data and reports are excellent while magnetic data are fair.

**Petroleum plays:** 12 plays within Basement, Permian, Mesozoic, Paleocene, Eocene, Miocene (+Biogenic), Pliocene (+Biogenic) have been mapped. Facies propagation in deepwater areas is challenging. Synrift and Eocene plays can be targets for exploration. Intensive exploration is recommended for inherent prospectivity of the basin.

**Six (06) Contract Areas ( 04 Onland, 02 Shallow water) are on offer in this basin (The details are given in the respective Information Docket and in Data Package).**

## 7. MUMBAI OFFSHORE BASIN

The basin is the most prolific petroliferous province of India, contributing nearly half of oil and two-third of gas production of ONGC (the major National Oil Company) annually. Mumbai basin is characterized by primarily carbonate-to-siliciclastic shelf margin, situated along the West Coast of Indian peninsula. The basin is a peri-cratonic, rift/extensional-passive margin basin, with a number of individual rift grabens forming sub-basins. This basin hosts a thick pile of sediments, mainly ranging from Paleocene to Recent. The basin, covering an area of 212,000 sq.km extends into shallow water (118,389 sq km) and deepwater area (93,611) of Arabian sea.



The Mumbai Offshore basin is still under active exploration stage. Commercial hydrocarbon occurrences spread over the Tertiary stratigraphic interval ranging from the oldest sediments of Paleogene to the youngest sediments of Plio-Pliocene complex. Though the basin is a major thermogenic hydrocarbon province but recently biogenic gas field has been discovered with strati-structural entrapment conditions.

The 2017 project on hydrocarbon resource reassessment integrates 48,000 LKM 2D seismic and 30,000 SKM 3D seismic data and 900 drilled wells information. With currently estimated hydrocarbon in place of 9,646 MMTOE and converted to discovered in place of 4,794 MMTOE, the basin is envisaged to hold 4,852 MMTOE yet-to-discover in place which is as much hydrocarbon potential as discovered so far.

**Datasets:** 3D PSM method has been used to initiate assessment of hydrocarbon resources since a robust static 3D geological model can be constructed due to adequate input data. Geochemical, 2D/3D seismic, well data and reports are excellent while gravity data are good and magnetic data are fair.

**Petroleum plays:** 10 plays within Basement, Tertiary (Mid-Late Miocene biogenic), Pliocene-Pleistocene (Biogenic) have been mapped. Deepwater areas have sparse seismic data and a very few wells were drilled. Paleocene and Eocene plays can be future exploration target. Deeper sequences and plays are recommended to be future target of exploration, particularly in Tapti-Daman area.

**Six (06) Shallow Water Contract Areas are on offer in this basin (The details are given in the respective Information Docket and in Data Package).**

## 8. BENGAL-PURNEA BASIN

Bengal basin is a potential hydrocarbon bearing province, characterized primarily by siliciclastic shelf margin, situated along the East Coast of Indian peninsula. The basin, like other east coast basins of India, is also a peri-cratonic, rift/extensional-passive margin basin, with number of individual Gondwana rift grabens in the onland part and a passive margin set up in the offshore region. This basin hosts thick pile of sediments of up to 10 km or more, mainly ranging from Permo-Triassic to Recent. The basin's onland part is mostly covered by the Mesozoic sediments, overlain by the thick Tertiary sediments comprising of Paleocene to Recent sediments, mainly deposited by the Ganga-Brahmaputra river system. The basin extends into offshore areas of Bay of Bengal, covering an area of 121,914 sq.km which include onland area of 42,414 sq km (Bengal onland and Purnea) and area of shallow offshore (33,465 sq km) and deep waters (46,035 sq km).

Bengal basin is currently under active exploration stage. Some biogenic gas shows are reported to be present over the Tertiary stratigraphic interval ranging from the oldest sediments of Paleogene to the youngest sediments of Miocene-Pliocene complex, geographically distributed majorly over offshore areas with strati-structural entrapment conditions. The hydrocarbon accumulations often indicate charging from in-situ shallower biogenic source sequences. The existence of unexplored deeper plays is also assessed through the Petroleum System Modeling.

The 2017 petroleum resource study integrated 70,550 LKM of 2D seismic, 13,018 SKM of 3D seismic and 83 drilled well information. The study started with static modelling followed by 3D petroleum system modelling. The basin has generated considerable volume of hydrocarbons with total accumulated in place of 828.3 MMTOE, which stands entirely undiscovered.





**Datasets:** Gondwana sequence of KG basin has been used as analogue for area reassessed by aerial yield method. Data are scanty to delineate and characterize the deeper plays. Gravity, 2D seismic, well data and reports are good while magnetic, geochemical and 3D data are fair.

**Petroleum plays:** 5 plays within Gondwana-Cretaceous-Tertiary (Onland), 7 plays within Eocene-Pliocene (Offshore) and 3 plays within Gondwana (Karharbari-Barakar-Raniganj) of Purnea sub-basin. Seismic quality is very challenging to identify channels in deeper plays. Hinge zone of Bengal basin can be future exploration thrust. More data acquisition from seismic and wells is recommended for characterizing channel facies.

**One (01) Contract Area is on offer in this basin (The details are given in the respective Information Docket and in Data Package).**



## XVII. ADDITIONAL TECHNICAL DETAILS OF THE DISCOVERED SMALL FIELDS ON OFFER:

S.No.	Basin	Contract Area	Name	Oil/Gas	No. of Wells	2D, LKM	3D, SKM		
1	Assam Shelf	AA/ONDSF/Madhakali/2018	Haldibari	Oil	2	147.7	41.93		
			Madhakali	Oil					
2		AA/ONDSF/Umatara/2018	South Rajgarh	Umatara	Oil	1	0	18.49	
				Umatara	Oil	1	10	33.55	
3		AA/ONDSF/Disaijan/2018	Disaijan	Oil	1	5.85	9.29		
4		AA/ONDSF/Tiphuk/2018	Tiphuk	Oil	3	27.69	21.37		
5	AA/ONDSF/Hazarigaon/2018	Hazarigaon	Gas	3	0.74	30.72			
6	AAFB	AA/ONDSF/Tulamura/2018	Tulamura	Gas	1	112.54	0		
7	Cambay	CB/ONDSF/Vadatal/2018	Vadatal-10	Oil	5	380.06	69.1		
			Vadatal-11	Oil	5	1043.32	147.77		
8		CB/ONDSF/A1/2018	NTPC-A1	Oil	9	881.77	170.14		
9		CB/ONDSF/Sanganpur/2018	Sanganpur	Oil	2	48.02	5.01		
10		CB/ONDSF/D45/2018	D-45	Gas	5	166.51	74.36		
11	Rajasthan	RJ/ONDSF/Chinnewala/2018	Chinnewala Tibba	Gas	4	766.7	69.73		
			Chinnewala Tibba-2	Gas					
12	KG Onland	KG/ONDSF/Palakollu/2018	Lankapalem	Gas	1	71.86	10.2		
			Turputullu	Gas-Cond	4	97.46	27.22		
			Palakollu	Gas	4	109.59	23.78		
			Mummidivaram	Gas	1	42.6	27.12		
13		KG/ONDSF/Suryaraopeta/2018	Pendurru	Suryaraopeta-4	Gas	3	233.12	51.14	
				Suryaraopeta-4	Gas	7	127.68	51.08	
14	KG/ONDSF/Kaza/2018	Kaza	Oil	2	248.25	107.96			
15	KG/ONDSF/Gokarnapuram/2018	Gokarnapuram	Oil	2	54.23	27.22			
16	Kutch Offshore	GK/OSDSF/GK39/2018	GK-39	Gas	1	132.41	16.8		
17	KG Offshore (SW)	KG/OSDSF/G4/2018	YS-5	Gas	3	63.39	94.72		
			G-4-6	Oil					
18		KG/OSDSF/GSKW/2018	GS-70	GS-48-1	Gas	9	16.19	51.37	
				GS-69	Oil				
				GS-KW-6	Oil				
19	Mumbai Offshore	MB/OSDSF/CA/2018	GS-KW-5	Oil	4	64.88	26.95		
			ED-4	Oil	1	80.47	32.55		
TP			Gas	1	59.55	25.84			
SD-1			SD-1-5	CD	SD-1	Oil	7	306.15	155.35
					SD-1-5	Oil			
CD	Oil								





S.No.	Basin	Contract Area	Name	Oil/Gas	No. of Wells	2D, LKM	3D, SKM		
20	Bengal-Purnea Basin/Mahanadi Offshore	MB/OSDSF/D31/2018	CA	Gas	5	109.13	72.23		
			SD-14	Gas					
			SD-4	Oil	2	67.7	57.68		
		21	MB/OSDSF/NMT/2018	MB/OSDSF/D31/2018	B-192A	Oil	2	656.32	103.55
					D-31	Oil	2	261.06	55.58
					D-12	Gas	1	514.19	59.32
					BH-67	Gas	2	180.45	62.54
22	MB/OSDSF/SB15/2018	MB/OSDSF/NMT/2018	C-37	Gas	4	54.45	25.78		
			C-43	Gas					
			NMT	Gas	1	85.44	36.05		
23	MB/OSDSF/D33/2018	MB/OSDSF/SB15/2018	B-163	Gas	2	73.54	8.86		
			PER	Oil	1	83.27	43.67		
			BNP-2	Gas	2	188.94	87.41		
			SB-15	Oil	1	161.22	36.52		
			B-14	Gas	2	183.11	49.05		
24	MB/OSDSF/D18/2018	MB/OSDSF/D33/2018	D-33	Oil	5	1229.53	200.06		
25	Bengal-Purnea Basin/Mahanadi Offshore	MB/OSDSF/D18/2018	NEC/OSDSF/D11/2018	D-18	Oil	8	551.22	103.53	
				D-9	Gas	4	180.08	0	
				D-10	Gas				
				D-11	Gas				
				D-15	Gas				
				25	Bengal-Purnea Basin/Mahanadi Offshore	NEC/OSDSF/D11/2018	NEC/OSDSF/D11/2018	D-20	Gas
D-21	Gas								





## 2.

# **Book Value of Assets of Discovered Small Oil & Gas Fields**

Under

# **Discovered Small Field Policy**

*Second Round of offer of Contract Areas*





Book value of all the offered Discovered Small Fields of ONGC & OIL under Discovered Small Field Bid Round-II (2018) is 'NIL'.



**3.**  
**Format**  
**for Submission of Bids for the**  
**Development of Discovered**  
**Small Oil & Gas Fields**  
Under  
**Discovered Small Field Policy**

*Second Round of Offer of Contract Areas*





## **FORMAT FOR SUBMISSION OF BIDS FOR THE DEVELOPMENT OF DISCOVERED SMALL OIL & GAS FIELDS IN INDIA - 2018**

Bids have to be submitted online in the E-Bidding portal specified: (<https://ebidding.dghindia.gov.in>), where detailed instructions is being provided with respect to submission of bids. Bidders are required to fulfill all information requirement specified therein and clearly follow the instructions. In case of any inconsistency the bidders are required to provide all the information requested for under this format as well as the e-bidding format. Hard copies of the documents have to be submitted by the bid closing date and time, failing which bids would be rejected.

Please read this Bid Format along with the contract terms in brochure "Notice Inviting Offers for Development of Discovered Small Fields in India-2018", Bid Evaluation Criteria provided in NIO as well as the "Model Revenue Sharing Contract (MRSC)" while formulating bid proposal. Bid not complying with the terms and conditions of NIO or providing incomplete information may be liable for rejection without giving any opportunity to the bidding company. The bidder is expected to provide the required information in as much detail as possible so as to facilitate evaluation of the bid by the Government. No proposal from the bidder for change in any of the bid terms shall be entertained after submission of the bids. Any assumptions/deviations in a bid which are inconsistent with the contract terms listed in the brochure "Notice Inviting Offers for Development of Discovered Small Fields in India-2018" may render the bid liable for rejection. Government at its sole discretion reserves the right to accept or reject any or all of the bids received without assigning any reasons, whatsoever. Government reserves the right to seek any clarification/additional information to enable proper evaluation of bids.

The bid application for a Contract Area will be submitted online as per formats provided in the online e-bidding portal at <https://ebidding.dghindia.gov.in>. If needed, please attach additional documentation and provide clarity to the application. In case of consortium bid, please ensure that all parties to the consortium complete the corporate/financial information outlined in Section III. Bids not submitted in this format covering all the relevant information listed above are liable to be rejected.



## I. BIDDER COMPANY / CONSORTIUM

### A. COMPOSITION:

S. NO.	NAME OF COMPANY/COMPANIES	PROPOSED PERCENTAGE OF PARTICIPATING INTEREST
1.		
2.		

### B. OPERATORSHIP:

S. NO.	NAME OF THE PROPOSED OPERATOR(S*)	PROPOSED PERCENTAGE OF PARTICIPATING INTEREST
1.		
2.		

\*In case of more than one Operator, name of the proposed leader\_\_\_\_\_.

## II. DESCRIPTION OF THE CONTRACT AREA BID FOR:

CONTRACT AREA NAME AS PER NIO	MAP REFERENCE NO. OF CONTRACT AREA AS PER NIO	APPROX. AREA OF THE CONTRACT AREA (SQ. KMS.)	GEOGRAPHIC CO-ORDINATES OF THE CONTRACT AREA AS IN THE DATA PACKAGE/FIELD INFORMATION DOCKET

## III. CORPORATE INFORMATION

This information should be provided by all bidders. In case of a bid from a consortium, each member of the consortium should provide this information in the given format (Annexure-III)

## IV. ADDITIONAL CORPORATE INFORMATION

This information should be provided by bidders and in case of a bid from a consortium, each member of the consortium should provide this information in the given format (Annexure-IV).

V. Whether bidder confirms to carry out Biddable Work Program within the period wherever specified against the Contract Area in the NIO: YES/NO

VI. Envisaged Economic life of the Contract Area .....years

## VII. BIDDABLE WORK PROGRAMME

The Biddable Work Programme is to be given below by the company: (to be filled only through online e-bidding portal)

S. No.	Name of Contract Area	Type of Work	Physical Quantity
1		Appraisal/Development wells	
<b>Total</b>			





The biddable Work Programme will be valued at rates of Liquidated Damages (LD) indicated in 'Other terms & conditions' of NIO for evaluating the net worth capability of companies.

In case of 'Nil' Biddable Work Programme, while evaluating the bids, where a bidding company or a consortium happen to be best rank bidder for two or more Contract Area, the net worth of the company/ each company of the consortium shall be in proportion to their Participating Interest, which in aggregate, for each Contract Area, will be equal to an amount of US \$ 0.15 million and US \$ 0.23 million for Onland blocks and Shallow water Contract Areas respectively.

#### **VIII. BIDDABLE SHARE OF GOVERNMENT REVENUE:**

Sharing of Revenue with Government of India offered at various revenue levels:

Government share of Revenue: (to be filled only through online e-bidding portal)

<b>Name of Contract Area</b>	<b>Revenue</b>	<b>Percentage Share of Revenue offered to Government of India</b>
	Less than or equal to LRP (US\$ 0.0100 million per day)	
	Equal to or more than HRP (US\$ 1.0000 million per day)	

The percentage share of Revenue offered by the bidder to Government of India should be non zero positive whole numbers, such that the percentage share of revenue offered at Higher Revenue Point (HRP) is more than that offered at the Lower Revenue Point (LRP). Bids not fulfilling these requirements will not be accepted.

#### **IX. INFORMATION OF FINANCIAL CAPABILITY**

- i. The bidder is required to have adequate net-worth. The net worth of the bidding company(s) should be equal or more than its Participating Interest value of the Biddable Work Program commitment provided that every company should have a minimum net worth of US \$ 1 million.
- ii. The bidder, in respect of each of the bidding company is required to submit the annual report including the audited annual accounts for the latest completed year and a Certificate of net-worth from company's statutory auditor(s) based on the latest audited annual accounts certifying the net-worth of the bidding company. In case the parent company provides financial and performance guarantee, the annual report, annual accounts and net-worth certificate in respect of parent company should be submitted and the financial capability of the parent company shall be considered for evaluating the financial capability of a bidding company.
- iii. In case a bidding company either bidding alone or as a consortium happens to be the best ranked bidder for two or more Contract Areas, the net-worth of the company shall be required to be equal to or more than its participating interest in the value of Work Programme commitment for all such Contract Areas. In case, the company's net-worth is less than its participating interest in the value of Work Programme commitment for such Contract Areas, the bids will be considered in order of priority given by that company(s) in its/their bids for respective Contract Areas.



- iv. A domestic company which does not have adequate net-worth, may submit a Bank Guarantee as mentioned in point-3 of para-IV as per its net-worth requirement in the format prescribed in Annexure-I.

### NET-WORTH CALCULATION

The Net-worth of the bidding company / parent company shall be calculated in accordance with the method given below based on the latest completed year's audited annual account and annual report:

#### NAME OF THE COMPANY:

Sl. No.	Sub-criteria	Amount * (US \$ MM)
(a)	Paid up capital	
(b)	Reserve and surplus	
(c)	Misc. expenditure to the extent not written off	
(d)	Net-worth = (a) + (b) - (c)	

Note:

- Net-worth figure filled online in the e-bidding portal by the bidder should match with the figure appearing in the documentary proof submitted in Hard copy in Bid documents to DGH office; otherwise the bid would be rejected.
- For the purpose of assessing the net-worth in US \$ the cut-off of date shall be the date of Balance sheet of the audited annual accounts for the latest completed year, submitted in the bid.
- For conversion to US \$ from other currencies, the currency exchange rate prevailing as on the date of Balance Sheet or if not available, the latest currency exchange rate prevailing prior to the date of Balance sheet shall be used. The bidder may provide in the bid a copy of the document showing RBI (Reserve Bank of India) reference rate or rate quoted by any other bank, used by him for currency conversion.

\*The above information should be provided for the year for which the latest audited annual account and annual reports are furnished.

- X. Where a company or a consortium has submitted bids for more than one contract area, priority ranking in terms of the Company / Consortium's relative interest in different contract area including all onland, shallow water contract areas, should be indicated as follows: (to be filled only through online e-bidding portal)

NAME OF CONTRACT AREA (As per NIO)	MAP REFERENCE NO. OF CONTRACT AREA (As per NIO)	PRIORITY RANKING
		1
		2
		...
		N

Note: Priority rank for each Contract area has to be unique. No two contract areas can have the same priority rank or the bids for those Contract Areas are liable to be rejected.





- XI.** A bid bond in the form of a **TERM DEPOSIT RECEIPT (TDR)** valid for a period of one year and with a provision for pre-mature encashment shall be furnished by the bidder in the name of **“PAY & ACCOUNTS OFFICER, MOPNG, SHASTRI BHAWAN, NEW DELHI”** for an amount specified in para 4 of other terms and conditions in NIO.

**XII. DOCUMENTS TO BE SUBMITTED IN HARD COPY**

1. Letter of authorisation for person bidding in online e-bidding portal
2. A bid bond in the form of Term Deposit (TDR).
3. BG in lieu of shortfall of Networth vis a vis value of Bid Work Programme, as applicable.
4. Proof of payment of tender fees by way of purchase of Field Information Docket in terms of NIO and Price List.
5. Letter of presentation and commitment from the bidding company, and / or from parent company, where ever applicable.
6. Certificate from statutory auditor of the bidding company regarding Net-worth.
7. Documents evidencing the legal existence of the bidding company (including latest Article of Association and Memorandum and certificate of incorporation / registration).
8. Audited annual reports, balance sheets and profit and loss statements in English language along with the schedule of notes forming part of balance sheet for the latest completed year.
9. Ample and sufficient power-of-attorney granted to a legal representative / authorised representative of company or leader of consortium.
10. Consortium or association agreement, where ever applicable.
11. Document whereby the parent company knows and endorses the bid and the contractual obligations of its affiliate or subsidiary, where ever applicable.
12. Corporate Information and additional Corporate Information in respect of each bidding company, as per given format
13. Declaration as per given Annexure-V

Note: Above mentioned all documents are to be submitted in duplicate in sealed envelopes (with proper index of documents) superscribed “Confidential Bid documents under Discovered Small Field policy for the Contract Area (s).....”

**XIII. DOCUMENTS TO BE SUBMITTED ONLINE THROUGH E-BIDDING PORTAL**

1. Letter of authorisation for person bidding in online e-bidding portal
2. A bid bond in the form of Term Deposit (TDR).
3. BG in lieu of shortfall of Networth vis a vis value of Bid Work Programme, as applicable.
4. Proof of payment of tender fees by way of purchase of Field Information Docket in terms of NIO and Price List.





5. Letter of presentation and commitment from the bidding company, and / or from parent company, where ever applicable.
6. Certificate from statutory auditor of the bidding company regarding Net-worth.
7. Documents evidencing the legal existence of the bidding company (including latest Article of Association and Memorandum and certificate of incorporation / registration).
8. Ample and sufficient power-of-attorney granted to a legal representative / authorised representative of company or leader of consortium.
9. Document whereby the parent company knows and endorses the bid and the contractual obligations of its affiliate or subsidiary, where ever applicable.
10. Corporate Information and additional Corporate Information in respect of each bidding company, as per given format
11. Declaration as per given Annexure-V





**4.**  
**Price List**  
**for Information Dockets, Data**  
**Packages, etc. of**  
**Discovered Small Oil & Gas Fields in India**  
Under  
**Discovered Small Field Policy**  
*Second Round of offer of Contract Areas*



## 1. PURCHASE OF DATA

For a bid to be valid, bidding company or consortium, as the case may be, is required to pay Tender Fees by way of purchase of the requisite Field Information Docket of the Contract Area to be bid on or before bid closing date.

Geological information about the Sedimentary Basins is available for purchase in digital mode. The digital data set comprising seismic data, navigation data and well log data, special reports like well completion reports, etc., wherever applicable can be purchased on National Data Repository (NDR) (<http://www.ndrdgh.gov.in/>) as per their data and pricing policy.

### Applicability of GST

For purchase of Digital Data Package and Basin Information Dockets, GST will be charged, if applicable.

## 2. PRICELIST

### A. FIELD INFORMATION DOCKET

Bidders will have to submit a non-refundable tender fee to be paid online to the DGH (to be paid through e-bidding portal).

- a. All Onland Contract Areas: US\$ 1000
- b. All Offshore Contract Areas: US\$ 1000

**B.** Basin information docket are available for purchase as per NDR published rates.

### C. DIGITAL SETS OF DATA PACKAGE

Digital sets of Data Packages have been prepared comprising all available technical information in NDR. Bidders can purchase/buy these data sets at NDR published rates.

Additionally, Bidders can purchase/buy additional data at NDR published rates. These fee would be payable through NDR portal.

## 3. DATA VIEWING FACILITY

Physical data rooms with interpretation facility for Discovered Small Fields data will be available at following locations:-

- a) National Data Repository (NDR), DGH, NOIDA, Uttar Pradesh (India)

S.No.	Time Schedule	Charges
1	First 2 days	No charges
2	Third day	US\$ 250 or equivalent INR.
3	Fourth day	US\$ 500 or equivalent INR.
4	Fifth day	US\$ 1250 or equivalent INR.

The Indian companies will make the payment in equivalent INR at RBI reference rate prevailing working day of date of payment.





**The data viewing would be as per the following conditions:-**

- A maximum of upto 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, Briefcases etc. are not permitted in Data Viewing Room. Only pens/pencils, Laptop and paper note books are permitted.
- Field Information Dockets, Basin Information dockets 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 serve basis.
- Company/ consortium can view selected data online on web only on authorization by DGH, visit the DGH website: [www.dghindia.gov.in](http://www.dghindia.gov.in).



## ANNEXURE- I

### PERFORMA OF BANK GUARANTEE TO BE PROVIDED BY DOMESTIC BIDDER

(The bank should be a Scheduled bank in India)

1. In consideration of Government of India (hereinafter referred to as "Government") having agreed to consider bank guarantee in evaluation of net worth pursuant to terms and conditions of Notice Inviting Offer (NIO) under the Discovered Small Field Policy for entering into a Revenue Sharing Contract for the Contract Area \_\_\_\_\_, XYZ \_\_\_\_\_ having its registered office at \_\_\_\_\_ (hereinafter referred to as Company, which expression unless repugnant to the context or meaning thereof include all its successors, administrators, executors and assigns), which is a bidder/ a constituent of the consortium of bidders, and the Government have agreed that the Company shall furnish to Government a bank guarantee (hereinafter referred to as "Guarantee") towards its obligations arising out of or in relation to bid submitted under said NIO for an amount of US\$ \_\_\_\_\_ equivalent in Indian Rupees \_\_\_\_\_ (converted at US \$ = \_\_\_\_\_) for the performance of such obligations..
2. We \_\_\_\_\_ (name of the Bank) registered under the Law of \_\_\_\_\_ and having its registered office at \_\_\_\_\_ (hereinafter referred to as "the Bank", which expression shall unless repugnant to the context or meaning thereof includes all its successors, administrators, executors and assigns) do hereby guarantee and undertake to pay immediately on the first demand in writing and any/all money(s) to the extent of Indian Rupees / US\$ \_\_\_\_\_ (in figures) (Indian Rupees / US\$ \_\_\_\_\_ in words) without any demur, reservation, contest or protest and/or without any reference to the Company. Any such demand made by Government on the Bank by serving a written notice shall be conclusive and binding, without any proof, on the Bank as regards the amount due and payable, notwithstanding any dispute(s) pending before any court, tribunal, arbitrator, sole expert, conciliator or any other authority and/or any other matter or thing whatsoever, as liability under these presents being absolute and unequivocal. We agree that the Guarantee herein contained shall be irrevocable and shall continue to be enforceable until it is discharged by Government in writing. This Guarantee shall not be determined, discharged or affected by the liquidation, winding up, dissolution or insolvency of the Company and/or any bidders of aforesaid consortium and shall remain valid, binding and operative against the Bank.
3. The Bank also agree that Government at its option shall be entitled to enforce this Guarantee against the Bank as a principal debtor, in the first instance, without proceeding against the Company and notwithstanding any security or other guarantee that Government may have in relation to the Company's liabilities.
4. The Bank further agree that Government shall have fullest liberty without our consent and without affecting in any manner our obligations hereunder to vary any of the terms and conditions of the said NIO or to extend time of performance by the said Company from time to time or to postpone for any time or from time to time exercise of any of the powers vested in Government against the said Company and to forebear or enforce any of the terms and conditions relating to or arising out of the said NIO and we shall not be relieved from our





liability by reason of any such variation, or extension being granted to the said Company or for any forbearance, act or omission on the part of Government or any indulgence by Government to the said Company or any such matter or thing what so ever which under the law relating to sureties would, but for this provision, have effect of so relieving us.

5. The Bank further agree that the Guarantee herein contained shall remain in full force during the period that is taken for the performance of obligation arising out of or in relation to bid submitted under the said NIO and all dues of Government under or by virtue of such obligations have been fully paid and its claim satisfied or discharged or till Government discharges this Guarantee in writing, whichever is earlier.
6. This Guarantee shall not be discharged by any change in our constitution, in the constitution of Company or that of the any or all of the bidders of the aforesaid consortium.
7. The Bank confirms that this Guarantee has been issued with observance of appropriate laws of the country of issue.
8. The Bank also agrees that this Guarantee shall be governed and construed in accordance with Indian Laws and subject to the exclusive jurisdiction of Indian courts at \_\_\_\_\_, India.
9. Notwithstanding anything contained herein above, our liabilities under this Guarantee is limited to Indian Rupees / US\$ \_\_\_\_\_ (in figures) Indian Rupees / US\$ \_\_\_\_\_ (in words) and our Guarantee shall remain in force upto \_\_\_\_\_ and including sixty (60) days after the expiry date/extended date. Any claim under this Guarantee must be received before the expiry of sixty (60) days or before the expiry of sixty (60) days from the extended date if any. If no such claim has been received by us within sixty (60) days after the said date/extended date the Government's right under this will cease. However, if such a claim has been received by us within and upto sixty (60) days after the said date/extended date, all the Government's rights under this Guarantee shall be valid and shall not cease until we have satisfied that claim.

In witness whereof, the Bank through its authorised officers has set its hand and stamp on this \_\_\_\_\_ day of \_\_\_\_\_ 201\_\_ at \_\_\_\_\_.

The seal of \_\_\_\_\_ was hereto duly affixed by \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_ 201\_ in accordance with its bye-laws and this Guarantee was duly signed by \_\_\_\_\_ and \_\_\_\_\_ as required by the said bye-laws.

Secretary

President & Director

Witness:



## ANNEXURE- II

### Notional Revenue profiles to be used for Bid evaluation Purpose

Daily Revenue net of Royalty (US \$ MM)				
Year	Scenario 1	Scenario 2	Scenario 3	Scenario 4
1	0.0741	0.0456	0.1840	0.0912
2	0.1024	0.0537	0.2202	0.0968
3	0.1347	0.0678	0.2524	0.1101
4	0.1714	0.0831	0.2815	0.1222
5	0.1990	0.0938	0.2877	0.1250
6	0.2574	0.1114	0.3286	0.1349
7	0.2762	0.1173	0.3119	0.1289
8	0.2797	0.1167	0.2797	0.1167
9	0.2980	0.1222	0.2640	0.1112
10	0.3165	0.1278	0.2482	0.1055
11	0.2759	0.1038	0.1913	0.0779
12	0.2403	0.0842	0.1470	0.0572
13	0.2093	0.0682	0.1127	0.0420
14	0.1822	0.0552	0.0860	0.0306
15	0.1588	0.0446	0.0654	0.0223





## ANNEXURE-III

### CORPORATE INFORMATION

(a)	The bidding company's legal name	
(b)	In case of Consortium bid, name of the Operator	
(c)	Place of incorporation or registration	Place : State : Country : Zip :
(d)	Authorised representative of the company for communication on the bid	Name : Designation : Address : Tel. : Facsimile :
(e)	Name and address of Chairman of Board of Directors	
(f)	The name and address of the Chief Executive	
(g)	The name and address of shareholders holding more than 10% of company's stock	
(h)	Structure and details of the group, if any, to which the bidding company belongs including information on affiliates / parent company	
(i)	If parent company's financial and performance guarantee is proposed to be furnished, then please indicate percentage share-holding of the parent company in the bidding company and the status of the parent company in the group structure	
(j)	The business activities of the company	
(k)	Name(s) and address of parent company(ies) (where applicable)	Name: Address: Tel.: Facsimile: E-mail:
(l)*	The company should submit its annual report including the audited balance sheets and profit & loss statements along with the schedule of notes forming part of the balance sheet and a certificate (in English language) of their net-worth certified by the company's statutory auditors for the latest completed year. In case of parent company guarantee, this information of parent company should also be provided	
(m)	Number of total corporate employees of the company	
(n)	Number of employees engaged in Technical and Administrative activities	
(o)*	Details of judgments/arbitral awards against company or Consortium members or any corporate member of the group of companies to which the bidder belongs in the past 10 years. Please mention the nature of the case	
(p)	Details of any anticipated material events, risks, activities or plans which will have significant impact either positively or negatively on the bidder's ability to perform its obligations in India under the contract	





(q)	Has the bidder earlier worked in India? If yes, provide details	
(r)	Details of termination of or withdrawal from any earlier Production Sharing Contract in India by the bidding company or any member company of the bidding consortium	YES / NO

*\* In case a Company bids for more than one Contract Area, only two sets of documents as mentioned at Sl. No. (l) and (o) respectively will suffice. However, against other bid field(s), the Company / consortium should clearly mention the availability of the two sets of documents with reference to the particular Contract Area to establish linkage for evaluation purposes.*

**(Duly signed by authorised signatory on each page)**





**ANNEXURE- IV**

**ADDITIONAL CORPORATE INFORMATION**

(i) Proposed - For Individuals (Board of Directors)

1	2	3	4	5	6	7	8
<b>Sl. No.</b>	<b>Full Name of Board of Directors/ News Editor</b>	<b>Date of Birth</b>	<b>Parentage</b>	<b>Complete address &amp; Permanent address</b>	<b>Nationality</b>	<b>Passport Nos. and Issue date, if any</b>	<b>Contact address &amp; Telephone number, if any</b>

(ii) For Companies

1	2	3	4	5	6	7	8	9	10	11
<b>Sl. No.</b>	<b>Full name of Companies and its foreign collaborator if any including details of Board of Directors as in (i) above</b>	<b>Date of Registration</b>	<b>Present and Permanent address including address of Head Office, Regional Offices and Registered Office</b>	<b>Link with other Company (s)</b>	<b>Activities and other Business owned</b>	<b>Name of CEO (with details)</b>	<b>Shareholding pattern for Applicant Company and Investing company</b>	<b>Details of earlier approvals, if any, (Ref. No. &amp; Date)</b>	<b>Ultimate Ownership of shareholding companies and the investing company along with detailed particulars of owners</b>	<b>Presence of investing companies and shareholders in countries across the world, including collaborations with other foreign companies</b>



## ANNEXURE- V

### Declaration

I \_\_\_\_\_ (Name), \_\_\_\_\_ (Designation) of \_\_\_\_\_ (Name of Company) do hereby declare as under

1. That I am authorized and competent to sign this declaration
2. That the information and documents submitted along with the bid for the award of the Contract Area \_\_\_\_\_ are true and correct and nothing is false or any material information forming part of bid evaluation is suppressed.

I acknowledge, if any material information forming part of bid evaluation is suppressed or any information is found to be untrue, incorrect or misleading, the bid submitted shall be liable for rejection and, in case, contract has been awarded /executed pursuant to bid submitted, same shall be liable for cancellation.

Place: \_\_\_\_\_

Signature: \_\_\_\_\_

(Affix seal of Company also)

Date: \_\_\_\_\_

Name: \_\_\_\_\_

**[Note: In case, bidder is a consortium, each company constituting the consortium to provide this declaration.]**





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**Ministry of Petroleum & Natural Gas**  
Government of India