



सत्यमेव जयते

Ministry of Petroleum & Natural Gas
Government of India

NOTICE INVITING OFFERS (NIO)

for Exploration and Development of

Coal Bed Methane (CBM) Blocks

under the Hydrocarbon Exploration
& Licensing Policy (HELP)

Special CBM Bid Round-2021

under Open Acreage
Licensing Policy (OALP)

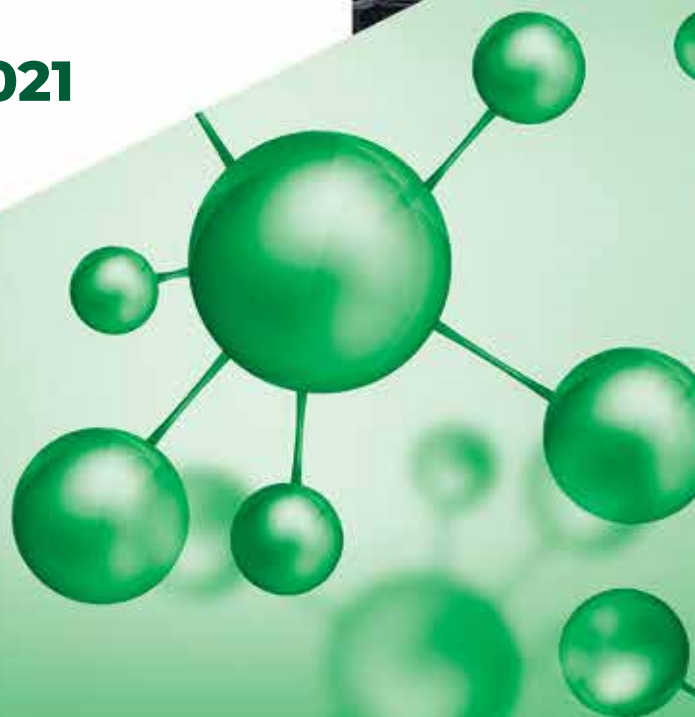


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01

ANNOUNCEMENT

- (i) With the objective to augment domestic production of Petroleum, the Government of India (**"Government"**) announces the offer of fifteen (15) CBM blocks under the Hydrocarbon Exploration and Licensing Policy (**"HELP"**) through International Competitive Bidding (**"ICB"**) for Petroleum Operations that have been identified either pursuant to the Expressions of Interest received under the Open Acreage Licensing Programme or Carved out by the Government of India.
- (ii) Companies are invited to bid for exploration, development and monetisation of fifteen (15) CBM blocks likely to contain both conventional and/or unconventional hydrocarbon resources, distributed in the sedimentary basins of India. A total of fifteen (15) Onland Blocks are on offer. Eligible companies, either alone or in consortium of unincorporated or incorporated joint ventures, may bid for one or more blocks. Any Company(ies) either singly or in consortium can put in only 1 (one) bid either as an Operator or Non-operator for 1 (one) particular block. Requisite qualifying technical and financial criteria are mentioned in the Chapter 4 of this document. The bidders are required to fulfil requisite Net Worth criteria commensurate to the value of their bid for the Committed Work Programme as specified, at the time of bidding. Bids would be evaluated on the basis of Bid Evaluation Criteria (BEC) specified for Category I, Category II & III basins blocks under Chapter 6 of this document.
- (iii) The bids are to be submitted through the e-bidding portal (<https://ebidding.dghindia.gov.in>) set up for this purpose. Detailed instructions regarding the use of the e-bidding portal are provided in the portal. Bidders are requested to familiarize themselves with the e-bidding portal and the tutorial provided there prior to preparation and submission of their bids.





MAIN FEATURES OF TERMS OFFERED

The blocks shall be awarded to successful bidder by entering into a Revenue Sharing Contract ("**RSC**") with the Government along the lines of published Model Revenue Sharing Contract ("**MRSC**"), subject to any amendments that the Government may, in its sole discretion, carry out to address any specific contractual issue that requires any amendment. The MRSC is in line with the Government's efforts to promote 'Ease of Doing Business', to attract domestic and foreign investment and is based on a simple and easy to administer contractual model with optimal regulatory oversight for exploration and development of India's petroleum reserves. Some of the attractive features of the terms offered by the Government are as under:

- (i) The Contractor is allowed to explore and extract both conventional and unconventional hydrocarbons under a single license.
- (ii) The Contractor is allowed to carry out exploration activity throughout the contract period.
- (iii) Bidding Criteria will be as under:
 - A) Blocks falling in Category –I Basins: Bid for Committed Work Programme and Revenue Share;
 - B) Blocks falling in Category –II and III Basins: Bid exclusively for Committed Work Programme

Detailed Bid Evaluation Criteria (BEC) has been defined under Chapter 6 of this document.

- (iv) The Biddable Work Programme consists of exploration only, which is to be completed within the timelines as specified in clause 8 (viii) of this document.
- (v) Government Share of Revenue (net of royalty and taxes on sales) shall be payable by the Contractor as per the applicable clauses of MRSC (based on category of the basins/CBM Blocks).





- (vi) In case of blocks falling in Category-I Basins, there is a provision for constant revenue sharing at the lower rate quoted by the bidder for initial period of two (2) years in case of Onland Blocks, three (3) years in case of Shallow Water Blocks and five (5) years in case of Deep Water Blocks and Ultra Deep Water Blocks irrespective of the revenue levels, to incentivize investment of the Contractor.
- (vii) In case of blocks falling in Category-II & III Basins, there will be no revenue sharing with Government except in case of a "Windfall Gain" (as defined in MRSC). In case of "Windfall Gain" Revenue Sharing provisions shall be applicable as per the provisions of MRSC.
- (viii) Up to 100% (hundred percent) participation by foreign companies is allowed subject to Indian Regulation on Foreign Investment.
- (ix) Exemption from customs duty will be provided on imports required for Petroleum Operations as per extant Government policy.
- (x) Cess under Oil Industry (Development) Act, 1974 ("**OID Act**") shall not be applicable on crude oil production from these blocks.
- (xi) The Contractor will have full marketing and pricing freedom to sell on Arm's Length Basis. Discovery of prices will be on the basis of transparent and competitive bidding. No export will be allowed. There will be no allocation by the Government.
- (xii) In order to incentivize offshore exploration, a graded system of reduced royalty rates would be applicable as per clause 8(xvii) of this document.
- (xiii) For incentivizing early commercial production, concessional royalty rates will be applicable if commercial production is commenced within four (4) years for Onland and Shallow Water Blocks, and five (5) years for Deep Water and Ultra Deep Water Blocks from the Effective Date of contract. Concessional royalty rates are specified in clause 8 (xviii)
- (xiv) Assignment of Participating Interest ("**PI**") shall follow a simple well defined process.





- (xv) All disputes arising out of or in relation to or in connection with the Revenue Sharing Contract shall be referred in the first instance to Committee of Eminent Persons/Experts notified by the Government of India for amicable resolution by way of mediation and conciliation. Upon failure of such proceedings, the dispute may be referred to arbitration. Arbitration proceedings shall be governed by the provisions of the Arbitration and Conciliation Act, 1996, as amended from time to time.
- (xvi) Predetermined Liquidated Damages ("**LD**") have been specified for unfinished Committed Work Programme.
- (xvii) One-time Bank Guarantee ("**BG**") shall be applicable for the Committed Work Programme.





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BIDDABLE TERMS

A. Biddable terms comprise of the following parameters as tabulated below:

| S. No. | Category-I Basins | Category-II & III Basins |
|--------|---|---|
| 1 | Work Programme Commitment a) Number of Core Hole(s) b) Number of Test well(s) | Work Programme Commitment a) Number of Core Hole(s) b) Number of Test well(s) |
| 2 | Quote ¹ of Revenue Share at LRP and HRP (subject to a cap of 50% quote at HRP and Quote at HRP > Quote at LRP) | Not Applicable |

B. Non Biddable Mandatory Submission

Time spread for performing completion of committed number of Core Holes / Test wells has to be submitted by bidders. However, the same will not be considered for bid evaluation.

The Committed Work Programme is required to be completed in a time bound manner in Exploration Period as specified in clause 8(viii) of this NIO.

C. Revenue Share

(i) Revenue Share points are as follows:

a) Blocks falling in Category-I Basins

Lower Revenue Point ("LRP") which is equal to USD 0.05 million of revenue per day and Higher Revenue Point ("HRP") which is equal to USD 7.00 million of revenue per day.

¹Quotes at LRP and HRP must be non-zero positive whole numbers





- (ii) The percentage Revenue Share offered shall be non-zero positive whole number, such that, the percentage share of Revenue offered by the bidder to the Government at the HRP shall be higher than that offered at the LRP. Bids not fulfilling these requirements will be rejected.
- (iii) The upper ceiling for Revenue Share Quote at HRP shall be 50%.
- (iv) There is a provision for constant revenue sharing at the lower rate quoted by the bidder for initial period of two (2) years in case of Onland Blocks, three (3) years in case of Shallow Water Blocks and five (5) years in case of Deep Water Blocks and Ultra Deep Water Blocks irrespective of the revenue levels, to incentivize investment of the Contractor.
- (v) The applicable percentage Revenue Share to the Government shall be computed in accordance with the provisions of MRSC i.e. the provisions of stabilization period and methodology given in MRSC to calculate Revenue Share shall apply mutatis mutandis to calculate Revenue Share at the time of bid evaluation.
- (vi) The notional revenue profiles to be used for the bid evaluation for blocks falling in Category-I basins are provided as **Annexure-V** to this document.





BID QUALIFYING CRITERIA

- (i) Payment of Tender Fees of INR 75,000 (as per clause 8(iv)) must be made by the Bidder on or before the bid closing date. Proof of purchase of requisite value of data from the National Data Repository to be submitted at the time of bidding.
- (ii) A bid shall be submitted online in the e-Bidding Portal, where detailed instructions have been provided including online submission of documents. Hard copies of the bid along with mandatory documents have to be submitted by the bid closing date and time. "FORMAT FOR SUBMISSION OF BIDS" and "ADDITIONAL CORPORATE INFORMATION" are provided in **Annexures I and II**.
- (iii) Bid Bond of requisite value (in USD or equivalent INR) in the format as per **Annexure III**.
- (iv) Unconditional acceptance of all terms and conditions of NIO and MRSC.
- (v) The Bidder must be a single incorporated company or in consortium with other companies, through an unincorporated or incorporated joint venture. If the bidder is incorporated Joint Venture, it has to meet necessary Technical and Financial Criteria specified in this document.
- (vi) Notarized deed or declaration shall be submitted along with the bid that it is not in a state of bankruptcy, liquidation, cessation of operations, receivership, or other similar state, and no process of being placed in bankruptcy, liquidation, receivership, or other similar process have been filed against the bidding entity.
- (vii) A copy of the Memorandum and Articles of Association and by-laws of the applicant entity have to be submitted. Registration Certificate along with the name of any sovereign state or legal entities or nationals of any sovereign state that directly or indirectly holds 50% (fifty percent) or more of the voting shares of each member of the bidder consortium, or otherwise has an interest that





could constitute control shall be submitted. In case of group of companies, the group's structure and organization structure shall also be submitted).

- (viii) The Net Worth of the bidding company(ies) considering Standalone (not consolidated) Financial Statements should meet the financial capacity criteria specified in clause 4(xvi) of the NIO. The Net Worth will be calculated in accordance with the method given in the "FORMAT FOR SUBMISSION OF BIDS". Bids not meeting the Net Worth criteria shall not be considered for further evaluation. **(Please note that the Net Worth would be checked at the time of Bid Evaluation as well, to match it with the bid value of the Committed Work Programme).**
- (ix) The Annual Report including the Audited Annual Accounts for the latest completed year ending preceding the date of bid submission. If annual Report of year end date immediately preceding the bid submission date has not been finalized, then such report for the immediately preceding year end date shall be submitted. A certificate of Net Worth calculated in accordance with method given in the "**Annexure-I**" from the statutory auditor(s) based on the above Audited Annual Accounts is required to be submitted for each member of the consortium.
- (x) In case the parent company of the bidder has committed to provide financial and performance guarantee for its subsidiary, then the Annual Report, Annual Accounts and Net Worth certificate in respect of the parent company should be submitted and the Standalone (not Consolidated) financial capability of the parent company shall be considered for evaluating the financial capability of a bidding company (this applies for each company in the consortium in case of consortium bidding).
- (xi) Bidder shall submit **Board approved** delegation of authority for the valid and binding bid/s submitted.
- (xii) Any additional information supporting the technical and financial capacity of the bidder, as deemed fit should be submitted.
- (xiii) Satisfactory evidence for Technical Qualification Criteria including extracts of relevant Contracts (only for qualification) are required to be submitted.
- (xiv) Documents in support of court approval if the entity has gone through a process of amalgamation and merger/reorganization under any statute in India or outside jurisdiction in the preceding 3 financial years.





(xv) **Technical Qualification Criteria**

The Operator in the Consortium (or the Bidder if a single entity), is required to meet the following technical qualification criteria:

| S. No. | Criteria | Onland | Shallow Water | Deep Water/ Ultra Deep Water | CBM |
|--------|---|--|--------------------------------------|--------------------------------------|--------------------------------------|
| 1 | Minimum Operatorship Experience (Experience of Operatorship in oil and gas exploration and / or development and / or production in the preceding 10 (ten) years) from the date of launch of NIO | 1 (one) year experience is mandatory | 1 (one) year experience is mandatory | 1 (one) year experience is mandatory | 1 (one) year experience is mandatory |
| 2 | Acreage Holding (sq. km.): (for Onland, Shallow Water, Deep Water/ Ultra-Deep Water and CBM) in preceding 10 (ten) years from the date of launch of NIO | Positive Optional if Point No. 3 is fulfilled | | | |
| 3 | Average Annual production for any previous 5 (five) years: (for Onland, Shallow Water, Deep Water/ Ultra-Deep Water) in preceding 10 (ten) years from the date of launch of NIO | Positive Optional if Point No. 2 is fulfilled | | | |





Note-

- A. **“Operatorship Experience”** means experience of the party, appointed in accordance with laws of the respective country(ies), to conduct and execute exploration and/or development and/or production operations.
- B. Operatorship Experience in respective category of block is required for which bidder is applying, subject to:
- Operatorship Experience in Deep Water/Ultra Deep Water block would be recognized as relevant for all type of blocks.
 - Operatorship Experience in Shallow water block would be recognized as relevant for Deep Water, Shallow Water and Onland blocks.
 - Operatorship Experience in Onland block would be recognized as relevant for Onland and Shallow Water blocks.
 - Operatorship Experience in Coal Bed Methane (“CBM”) block would be recognized as relevant for Onland blocks.
- C. Acreage Holding means those areas where the designated Operator holds lease/license /permit etc., for exploration and/or development and/or production operations in accordance with the laws of respective country(ies).

(xvi) Financial Qualification Criteria

Bidder (individually or in consortium) has to meet following Net Worth criteria. Each member of a Consortium has to independently meet the Net Worth criteria in proportion to their Participating Interest (“PI”).

| S. No. | Type of Block | Requisite Net Worth for one sector (in million USD) | Net Worth for additional sectors (in million USD/ sector) |
|--------|------------------|---|---|
| 1 | Onland | 5 | 1 |
| 2 | Shallow Water | 20 | 2 |
| 3 | Deep Water | 60 | 2.5 |
| 4 | Ultra Deep Water | 90 | 3 |
| 5 | CBM | 2.5 | 0.5 |





1. Minimum Net Worth will be that of one sector irrespective of the area sought (if less than one sector of 10' x 10').
2. For additional area (in addition to one sector) Net Worth for area less than 10'x10' sector will be computed on pro rata basis (in multiples of 1'x1').

Post qualification, Net Worth of the constituents of the bidder will be reassessed in proportion to their Participating Interest at the time of bid opening and final allocation of the Blocks. At this stage, Net Worth of the bidder should be equal to or more than the higher of:

- Estimated expenditure for the Committed Work Programme; or
- LD equivalent value of the Committed Work Programme.

The Net Worth of the Bidder can be topped-up by a supporting Bank Guarantee in lieu of Net Worth, which can be utilized against any shortfall in Net Worth as required above. The Bank Guarantee shall be submitted at the time of bidding in favour of the Government from a Scheduled Commercial Bank in the format as per **Annexure IV** valid for a period of 12 (twelve) months from the date of issuance. Date of Issuance shall not be earlier than 30 (thirty) days from the date of submission of Bid.

In case of extension in the bid closing date/contract signing date (for winning bidders) beyond the validity of Bank Guarantee, DGH may seek the validity extension of the Bank Guarantee for a period of 6 (six) months or such other longer period (not more than 12 (twelve) months) as required by Government. If a bidder fails to submit the extended Bank Guarantee prior to Bid Closing Date/ thirty (30) days before the expiry date of the Bank Guarantee, Net Worth shall be considered without the value of the Bank Guarantee and if validity is not extended prior to signing date, the Bank Guarantee shall be encashed, and the amount forfeited on failure to submit Performance Bank Guarantee when due.

The BG in lieu of Net Worth will be released upon submission of the BG against LD as per Article 27 of the MRSC, failing which it would be encashed and forfeited.

Any bid failing to meet the above Financial Qualification Criteria would not be evaluated further.





Note: For conversion of the Balance Sheet to United States Dollar from other currencies, the currency exchange rate prevailing as on the date of the 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 its bid, such document showing Financial Benchmarks India (P) Ltd. (FBIL) reference rate.

(xvii) **Mandatory Purchase of Data from NDR**

Bidders are required to purchase the Data Package from the National Data Repository (NDR) for the blocks and provide evidence of purchase of the data along with their bids. The price for the Mandatory Data Package is being indicated as an attachment to this NIO for each block. 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 in NIO will be considered against the mandatory purchase of Data Package.

DGH shall provide a list of all data for the relevant blocks separately through the NDR and the pricing of each line item as per the data pricing policy. Bidders can purchase additional data as per their requirement.





BID REJECTION CRITERIA

The following shall lead to a rejection of the bid:

- (i) Any bid which does not conform to any of the requirements of Technical and Financial Qualification Criteria shall be rejected.
- (ii) Any bid which is without documentary proof of payment of Tender Fees for the block to be bid shall be rejected.
- (iii) Any bidder who has not purchased the Mandatory Data Package from the NDR and has not provided documentary proof of the purchase of the data.
- (iv) Any bid not accompanied by a Bid Bond (in the form of a Bank Guarantee from a Scheduled Commercial Bank) of adequate value and specified validity period.
- (v) Any bid which is not submitted in the format as prescribed in "FORMAT FOR SUBMISSION OF BIDS" as per requirement of the e-Bidding portal, incorporating all the information/details listed therein including Bid Bond, in prescribed format with requisite value and validity, as per clause 8(v), is liable to be rejected.
- (vi) Any bid which is submitted with any assumptions / deviations which are inconsistent or not complying with the terms listed in the NIO/MRSC is liable to be rejected.
- (vii) Any bid which is not accompanied by the Annual Report incorporating the Audited Annual Accounts along with a certificate of Net Worth as described in clause 4 (ix) above is liable to be rejected.
- (viii) Any bid that does not meet the Net Worth requirement at bid evaluation stage (subject to fulfilling the minimum Net Worth at the Qualification stage without any Bank Guarantee) unless the deficit is secured through required Bank





Guarantee against deficit Net Worth vis a vis value of Work Programme/LD shall not be considered for further evaluation.

- (ix) If the hardcopy of the required mandatory submissions is not received by the bid closing date.

The 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. The Government may seek such clarifications/ additional documents as it deems fit for the purpose of evaluation of bids prior to final decision.





BID EVALUATION CRITERIA (BEC)

Criteria to evaluate bids shall be specific to Category of Sedimentary Basins. Thus, bids will be evaluated based on the following criteria:

6.1 Bid Evaluation Criteria for Blocks falling in Category I Basin:

| Sl. No. | Activity | Marks | Evaluation Method |
|--------------------------------|------------------------|--------------------------|---|
| 1. Technical (Marks 70) | | | |
| 1.1 | No. of Core Holes | 40 | Bidder quoting highest no. of Core Holes gets maximum marks and others on pro-rata basis. |
| 1.2 | No. of Test Wells | 30 | Bidder quoting highest no. of Test Wells gets maximum marks and others on pro-rata basis. |
| 2 | Revenue Sharing | 30 | Bidder with highest average NPV of Revenue share offered to GoI computed as per provisions of MRSC gets maximum marks and others on pro-rata basis. |
| | Total | 100 (Hundred) | |

6.2 Bid Evaluation Criteria for Blocks falling in Category II & III Basin

| Sl. No. | Activity | Marks | Evaluation Method |
|---------|-------------------|--------------------------|---|
| 1.1 | No. of Core Holes | 60 | Bidder quoting highest no. of Core Holes gets maximum marks and others on pro-rata basis. |
| 1.2 | No. of Test Wells | 40 | Bidder quoting highest no. of Test Wells gets maximum marks and others on pro-rata basis. |
| | Total | 100 (Hundred) | |





Note:

I. Blocks falling in Category-I and Category-II & III Basins:

- a) The Target Depth of Core Hole(s) and Test Well(s) to be drilled in each of the respective blocks will be as per Details of Blocks on Offer as per Appendix-H of the MRSC.
- b) Bidder can quote 3D seismic (API) maximum up to the total area of respective Block.
- c) It is mandatory for the Bidders to submit the time spread for performing Seismic Survey and completion of committed number of Exploratory Well(s). However, it will be non-biddable.

6.3 Originator Incentive for all types of blocks

The Originator for the respective block will be assigned 5 (five) marks, out of technical marks and other bidders will get Nil marks.

In case of a consortium that has submitted the EoI, the same consortium without any change is liable to submit the bid for the applicable block. The Originator Incentive would not be granted in case composition of the consortium changes at the time of bidding, and the Participation Bond of such consortium would be forfeited.

No bidder shall get marks for Originator Incentive where blocks are carved out by Government.

6.4 Revenue Share for blocks falling in Category-I Basins

The Revenue Share offered to the Government by the bidder at the LRP and at the HRP (Quote at HRP cannot exceed 50%) will be considered for evaluation.

The Net Present Value ("**NPV**") of Revenue Share offered to the GoI by applying 10% (ten percent) per annum discount rate will be computed under 4 (four) scenarios taking into account 4 (four) notional revenue profiles. A simple average of the 4 (four) values of NPV of the Government share so arrived under the 4 (four) scenarios will be used for evaluation.





The Revenue Share offered to GoI shall be computed as per the provisions of Chapter 3 (Biddable Terms) of NIO and its Average NPV will be displayed to the bidder at the time of bidding in e-Bidding portal. An illustrative NPV calculator is being provided to the bidders in e-Bidding portal to assist in their quote (however, the NPV computed in the ebidding portal shall be used for bid evaluation.)

The bid with the highest Average NPV will be given the maximum marks and other bids will get points proportionately.





AVAILABILITY OF INFORMATION

The NIO with details of the blocks on offer, their geographical location on a map of India, the terms and conditions, bid format, price list and a copy of the MRSC will be made available free of cost to the bidders.

The details of each block shall also be hosted in the e-bidding portal. (ebidding.dghindia.gov.in)

Copies of these documents may also be viewed at website of Ministry of Petroleum & Natural Gas <http://www.petroleum.nic.in> and at website of DGH <http://www.dghindia.gov.in>

Resource Reassessment Report for different Sedimentary Basins of India is available for purchase in NDR. Mandatory Data Packages for each block together with the price list for the Mandatory Data Package is available at NDR for purchase. The digital data set comprising seismic data, navigation data and well log data, special reports like Well Completion Reports, etc., wherever available can be purchased on NDR (<http://www.ndrdgh.gov.in/>) as per their data and pricing policy.

Bidders are required to make a purchase of the Mandatory Data Package by making a payment as instructed. Mandatory Data Package Price List is placed at **Annexure VI**. They can purchase additional data at their option as per applicable rates.

Physical Data Room services would also be made available at DGH Office, Noida, India where bidders can access the data related to the blocks as well as carry out basic interpretation by paying the applicable fees for the same to DGH.

Companies interested in inspection of data, purchase of data and for any further details in this regard may contact:

Directorate General of Hydrocarbons
(Under Ministry of Petroleum & Natural Gas)





OIDB Bhawan, Plot No-2, Sector-73, Noida-201301, Uttar Pradesh, India

Phone: +91120-2472000, Fax: +91120-2472049

E-mail: ebiddinghelp@dghindia.gov.in

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

Bid Submission Date

Bids shall be submitted online through e-Bidding portal (ebidding.dghindia.gov.in) not later than 12:00 hrs. IST On..... All documents as mentioned at the e-bidding portal that require mandatory physical submission are to be submitted in duplicate in sealed envelopes, super-scribed **"Confidential Bid Documents under Open Acreage Licensing Policy for the Block (s)**" for each consortium, not later than.....) (the Bid closing date) at DGH address mentioned above. Non receipt of physical submissions shall lead to rejection of bids. **Please also affix printouts with bar-code from e-Bidding portal on the envelopes of physical bids.**

The qualification submissions of the bids shall be opened online at 13.30 hrs IST on the same day. Government shall have the right to extend the bid submission date. Any change in the indicated schedule shall be communicated subsequently.





OTHER TERMS AND CONDITIONS

(i) **Type of Contract and Participating Interest:**

The contract shall be in the form of the Revenue Sharing Contract in accordance with the published Model Revenue Sharing Contract (MRSC). Each of the companies participating in a consortium must have a minimum PI of 10% (ten percent) and the percentage participating share of each of the companies in the consortium should be specified in the bid. Government reserves the right that, it may, at its sole discretion carry out amendments to the terms and conditions of the MRSC, before signing, to address specific contractual issues that may require such amendments.

(ii) **Parties to the Contract:**

The parties to the contract shall be the Government and the successful Bidder or in case of a consortium, the members of the consortium. The MRSC may be referred for the detailed terms and conditions of the contract. One of the parties or two parties, in case of Joint Operators can be together nominated as Operator, provided in such case one of the Operators shall fulfill requisite criteria to be an Operator.

(iii) **Participation by Companies:**

Bidding is allowed only by incorporated companies, sole or in consortium. 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 and Bank Guarantee in lieu of Net Worth (if required) at the rate specified in clause 8(v) below.
- c) Provide satisfactory proof of **technical capability and operatorship experience** of the proposed Operator in accordance with the bid format.





(iv) Tender Fee:

Bidders will have to submit a non-refundable tender fee of INR 75,000 (Rupees seventy-five thousand) ("**Tender Fee**") through DGH payment gateway at the bidding stage. Tender Fee will not be payable by the Originator of the Block.

(v) Bid Bond in the form of Bank Guarantee:

Bidders will have to submit a Bid Bond of the value as specified under Chapter 10 (Details of Block (s) on Offer under HELP) for each block computed in accordance with Procedure for Operationalization of Open Acreage Licensing Policy. Bid Bond shall be in the format as provided in **Annexure III** from a Scheduled Commercial Bank valid for a period of 12 (twelve) months.

Only the Originator will not be required to submit the Bid Bond. Participation Bond submitted along with the EoI would be valid at this stage and considered as the Bid Bond with the same terms and conditions.

If the Contract is not signed by the winning Bidder within 90 (ninety) days after the award of the block, the Bid Bond/Participation Bond of the successful bidder will be encashed and forfeited.

In case the Contract signing date falls beyond the validity of Bid Bond/ Participation Bond, DGH may seek the validity extension of the Bank Guarantee of successful Bidder for a period of six (6) months or such other longer period (not more than twelve (12) months as required by GoI. If a Bidder fails to submit the extended Bank Guarantee thirty (30) days before its expiry date, the Bank Guarantee will be encashed and forfeited as mentioned in preceding para above.

Bid Bond and BG in lieu of Net Worth submitted with unsuccessful bids will be released after the signing of the contracts with successful bidders.

(vi) Liquidated Damages (LD):

The following LD shall be levied in case of unfinished Committed Work Programme during the Exploration Period as per Article 5.4 of MRSC.





| In US \$ | | | | | |
|-------------------------------|-----------|------------------|------------|---------------------|--|
| Activity/ Type of Block | Onland | Shallow Water | Deep Water | Ultra Deep Water | CBM |
| Per well | 1,000,000 | 3,000,000 | 10,000,000 | 12,000,000 | Per Core Hole : 250,000 Per Test Well : 650,000 |
| Per sq.km. of 3D Seismic | 5,000 | 1,500 | 1,500 | 1,500 | ----- |
| Per line km. of 2D Seismic | 2,500 | 1,000 | 1,000 | 1,000 | ----- |

Note-

The LD shall be paid by the Contractor to the Government within thirty (30) days of the receipt of its demand from the Government. In the event of any failure to pay LD value within the due date, the Contractor shall pay interest compounded on daily basis for the entire period of delay at applicable LIBOR plus two percent (2%) points.

(vii) Bank Guarantee towards Work Programme:

As provided in the Article 27 of MRSC, the BG shall be applicable for the Committed Work Programme. BG against the LD shall be an amount equal to the LD computed by applying the rates specified in the table 8(vi) above.

(viii) Exploration Period:

The Exploration Period will be of three (3) years for Onland/CBM/Shallow Water Blocks and four (4) years for Deep Water and Ultra Deep Water Blocks.

Exploration period specified above may be extended for Committed Work Programme as per the provisions of MRSC.





(ix) Relinquishment:

- a) Any relinquishment in the Contract Area shall be in integer multiples of 1'x 1' grid as specified in the NDR.
- b) On the completion of Committed Work Programme or on payment of Liquidated Damages for the unfinished Committed Work Programme, the Contractor has the option either:
 - i. to relinquish the entire Contract Area and the contract shall stand terminated; or
 - ii. to retain Discovery Areas / Development Areas (as the case may be) and relinquish other parts of the Contract Area.

In case the Petroleum production does not commence within the timelines as provided in Article 10 of the MRSC, the area will stand relinquished and the contract will be terminated. Detailed timelines and relinquishment provisions as mentioned in the MRSC shall prevail.

(x) Exploration, Development and Production Period:

- a) The Contractor will be required to bid the Work Programme for the block and commit to carry out the Committed Work Programme within the timelines as mentioned above in Article 3 of the MRSC.
- b) The Development and Production Period for the offered blocks would be a maximum of 20 (twenty) years from the grant of Mining Lease ("ML") or till economic life of the field as per submitted development plan, unless the Contract is terminated earlier in accordance with its terms, but may be extended upon mutual agreement between the parties for a further period of 10 (ten) years or such other shorter period as mutually agreed based on the estimated remaining economic life of the Block. Extension of lease period shall be determined as per MRSC.

(xi) Revenue Share:

a. Category-I Basins:

The Revenue Share offered to the Government by the bidder will be considered for bid evaluation purpose by applying the methodology





specified in this document. Revenue Share to the Government of India will be computed as per the provisions of Article 15 of MRSC.

b. Category II and III Basins:

There will be no Revenue Share bid required at the time of bidding. However, Revenue shall be shared with Government as per the provisions of MRSC when **“Windfall Gain”** accrues to the Contractor.

A **“Windfall Gain”** accrues to the Contractor when Revenue (as defined in MRSC) from the contract area exceeds USD 2.5 billion in a “Financial Year”.

In such case following slab shall be applicable

| Sl. No. | Revenue in a Financial Year | Revenue in a Financial Year |
|---------|---|---|
| i | Up to USD 2.5 billion | Nil |
| ii | More than USD 2.5 billion but less than or equal to USD 5 billion | 10% of revenue exceeding USD 2.5 billion |
| iii | More than USD 5 billion but less than or equal to USD 10 billion | Revenue Share from (ii) above and 30% of revenue exceeding USD 5 billion |
| iv | More than USD 10 billion | Revenue from (ii) and (iii) above and 50% of revenue exceeding USD 10 billion |

Revenue Share to the Government shall be payable from the month in which “Windfall Gain” accrues to the Contractor i.e. when year to date Revenue crosses the threshold limit of USD 2.5 billion.

“Financial Year” for the purpose of this clause shall be as per the definition in MRSC.





(xii) Valuation:

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

(xiii) Domestic Supply:

The Contractor shall be required to sell 100% (one hundred percent) of Petroleum from the Contract Area in the domestic market.

(xiv) Petroleum Pricing:

The Contractor will be free to sell the Petroleum, as specified in Article 17 of MRSC, through a transparent bidding process on an Arm's Length Sales Basis. Discovery of prices will be on the basis of transparent and competitive bidding. No export will be allowed. There will be no allocation by the Government.

(xv) Assignment:

Assignments as provided under Article 26 of the MRSC are permitted with prior approval of the Government. 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. The Government shall respond on an assignment application within 120 (one hundred and twenty) days from the receipt of application, failing which application shall be deemed to have been approved.

(xvi) Management Committee:

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

(xvii) Royalty:

The following Royalty rates will be applicable vide notification S.O. 367 (E) dated 14th January, 2019:





| Type of Block | Duration | Royalty rates (Oil) | Royalty rates (Gas & CBM) |
|------------------|-----------------------|-----------------------------------|---------------------------------|
| Onland | - | 12.5% (twelve point five percent) | 10% (ten percent) |
| Shallow Water | - | 7.5% (seven point five percent) | 7.5% (seven point five percent) |
| Deep Water | First 7 (seven) years | No royalty | No royalty |
| | After 7 (seven) years | 5% (five percent) | 5% (five percent) |
| Ultra Deep Water | First 7 (seven) years | No royalty | No royalty |
| | After 7 (seven) years | 2% (two percent) | 2% (two percent) |

(xviii) Concessional Royalty Rates:

Concessional Royalty Rates will be applicable if Commercial Production is commenced within four (4) years for Onland and Shallow Water blocks, and five (5) years for Deep Water and Ultra Deep Water Blocks from the Effective Date of the Contract. Basin category wise Concessional Royalty Rates will be as under (vide notification S.O.1597(E) dated 11th April, 2019):

Crude Oil-

| Basin Category | Onland | Shallow Water | Deep Water | | Ultra Deep Water | |
|---------------------|------------|---------------|---------------|---------------|------------------|---------------|
| | Throughout | Throughout | First 7 Years | After 7 Years | First 7 Years | After 7 Years |
| Category-I Basins | 11.25% | 6.75% | Nil | 4.5 % | Nil | 1.8 % |
| Category-II Basins | 10% | 6% | Nil | 4.0 % | Nil | 1.6 % |
| Category-III Basins | 8.75% | 5.25% | Nil | 3.5 % | Nil | 1.4 % |





Natural Gas/CBM-

| Basin Category | Onland | Shallow Water | Deep Water | | Ultra Deep Water | |
|---------------------|------------|---------------|---------------|---------------|------------------|---------------|
| | Throughout | Throughout | First 7 Years | After 7 Years | First 7 Years | After 7 Years |
| Category-I Basins | 9% | 6.75% | Nil | 4.5 % | Nil | 1.8 % |
| Category-II Basins | 8% | 6 % | Nil | 4.0 % | Nil | 1.6 % |
| Category-III Basins | 7% | 5.25% | Nil | 3.5 % | Nil | 1.4 % |

(xix) Oil Cess:

Oil Cess (as per the OID Act) is not applicable.

(xx) Customs Duty and GST:

Customs duty will be exempted on import of specific goods and services for Petroleum Operations as per extant applicable rules in this regard.

All rates/payments are exclusive of Goods and Services Tax (GST) which shall be payable as per applicable rules in this regard.

Bidders are required to verify on their own the applicable taxes and duties on their proposed activities and not make any claim on the Government of India arising from any change in rates/rules etc. that may happen from time to time.

(xxi) Income Taxes:

Income tax for the Contract Area will be governed by the Income Tax Act, 1961 as amended from time to time or substituted, as the case may be. Government of India shall not be liable for any change in Income Tax rates or rules framed there under. Bidders are required to verify the applicable Income Tax on their proposed activities.

(xxii) Data:

All data gathered during the course of operation under this contract shall be the property of the Government of India and required to be submitted to the NDR as per applicable Data Policy in this regard.





(xxiii) Local Preference:

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

(xxiv) Employment & Training:

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

(xxv) Applicability of Laws:

Contract shall be governed by the applicable Indian laws as defined in respective MRSC.

(xxvi) Arbitration and Dispute Resolution:

All disputes, differences or disagreements shall be submitted to a Committee of External Eminent persons/Experts notified by the Government of India for amicable resolution of disputes through mediation or conciliation and parties agree not to initiate arbitration proceedings during and in respect of the proceedings held before the Committee.

In case the disputes, differences or disagreement is not resolved, the parties may refer the matter to arbitration. Arbitration proceedings and procedures shall be as per the Indian law in this regard and will be held in India.

Provisions in detail are given in Article 31 of MRSC.

(xxvii) General:

English language shall be the language of the Contract.

(xxviii) Right to accept Bids:

The Government reserves the right to accept or reject any or all the bids at its sole discretion without offering any explanation for its decision. It may refer a bid or all bids for necessary clearance from Indian security agencies at it deems and its decision with respect to its security policy shall be final and binding on all bidders.





(xxix) Tie Breaking

In the case of a tie between two/or more bidders having same marks and thus ranked H-1 in the block, a tie break may be considered as follows:

Blocks falling in Category-I Basins-

- a) Case 1: When total marks comprising technical and fiscal are equal and one of the bidder is Originator

Tie Break: The Originator of the Block shall be given preference for award

- b) Case 2: When total marks comprising Technical and Fiscal are equal and no one is Originator

Tie Break: Bidder having higher Technical marks will be given preference.

- c) Case 3: If both Technical and Fiscal marks are separately equal and no one is the Originator

Tie Break: winner would be decided by a drawing of lots.

Blocks falling in Category-II & III Basins-

- a) Case 1: When total marks of the parties are equal and one of the bidder is Originator

Tie Break: The Originator of the Block shall be given preference for award

- b) Case 2: When total marks of the parties are equal and no one is Originator

Tie Break: winner would be decided by a drawing of lots.

(xxx) Right to ask clarifications on the Bids:

The Government, at its sole discretion, may ask any clarification(s) from the bidding companies in order to evaluate the bids. Unsatisfactory explanations may lead to rejection of the bids. Any unexplained inconsistency between written and electronic documents may lead to rejection of bid.

(xxxi) Consequence of furnishing false/misleading information/data:

At any stage during and 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 block or execution of the contract, the award shall be withdrawn or the contract shall be liable for cancellation.

(xxxii) The words and phrases not defined in this document shall have the same meaning as defined in the Model Revenue Sharing Contract.

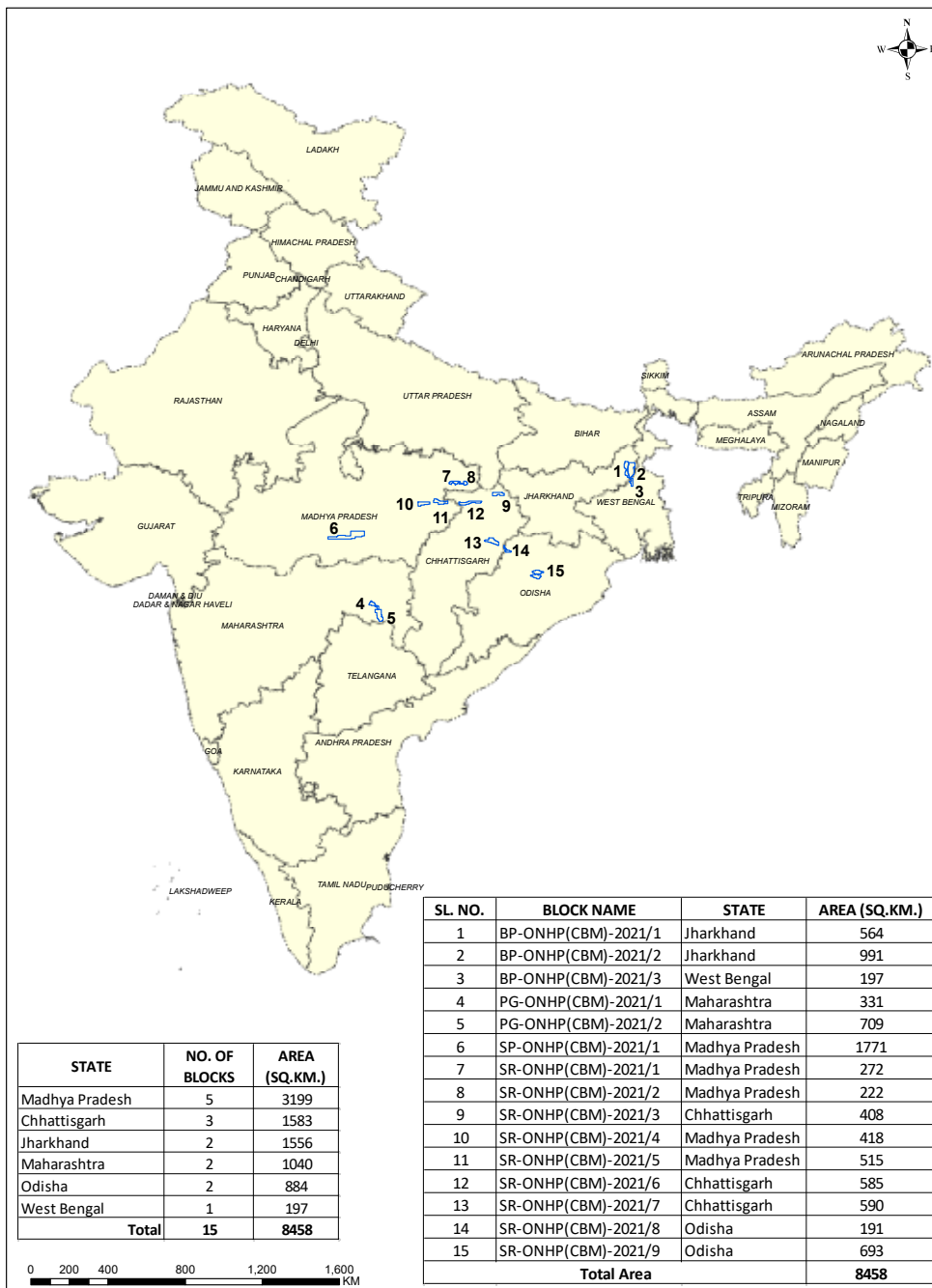




09

LOCATION MAP OF BLOCKS ON OFFER

Location Map of Blocks on Offer under Special CBM Bid Round-2021





DETAILS OF THE BLOCKS ON OFFER

Details of The Blocks on Offer under Special CBM Bid Round-2021

| S. NO. | BASIN NAME | BASIN CATEGORY | COAL FIELD | BLOCK NAME | STATE | AP-PROXIMATE AREA (SQ. KM.) | MINIMUM NET WORTH REQUIREMENT (MMUSD) | REQUISITE BID BOND (USD) |
|--------|-------------------|----------------|-------------------|----------------------|-------------------|-----------------------------|---------------------------------------|--------------------------|
| 1 | Bengal-Purnea | III | Rajmahal | BP-ONHP (CBM)-2021/1 | Jharkhand | 564 | 2.905 | 271500 |
| 2 | Bengal-Purnea | III | Rajmahal | BP-ONHP (CBM)-2021/2 | Jharkhand | 991 | 3.590 | 477000 |
| 3 | Bengal-Purnea | III | Birbhum | BP-ONHP (CBM)-2021/3 | West Bengal | 197 | 2.500 | 94500 |
| 4 | Pranhita-Godavari | III | Wardha | PG-ONHP (CBM)-2021/1 | Maharashtra | 331 | 2.515 | 154500 |
| 5 | Pranhita-Godavari | III | Wardha | PG-ONHP (CBM)-2021/2 | Maharashtra | 709 | 3.100 | 330000 |
| 6 | Satpura | III | Satpura | SP-ONHP (CBM)-2021/1 | Madhya Pradesh | 1771 | 4.795 | 838500 |
| 7 | South Rewa | III | Singrauli | SR-ONHP (CBM)-2021/1 | Madhya Pradesh | 272 | 2.500 | 130500 |
| 8 | South Rewa | III | Singrauli | SR-ONHP (CBM)-2021/2 | Madhya Pradesh | 222 | 2.500 | 106500 |
| 9 | South Rewa | III | Tatapani-Ramakola | SR-ONHP (CBM)-2021/3 | Chhattisgarh | 408 | 2.650 | 195000 |
| 10 | South Rewa | III | Johilla | SR-ONHP (CBM)-2021/4 | Madhya Pradesh | 418 | 2.665 | 199500 |
| 11 | South Rewa | III | Sohagpur | SR-ONHP (CBM)-2021/5 | Madhya Pradesh | 515 | 2.820 | 246000 |
| 12 | South Rewa | III | Sonhat | SR-ONHP (CBM)-2021/6 | Chhattisgarh | 585 | 2.930 | 279000 |
| 13 | South Rewa | III | Mand Raigarh | SR-ONHP (CBM)-2021/7 | Chhattisgarh | 590 | 2.930 | 279000 |
| 14 | South Rewa | III | IB valley | SR-ONHP (CBM)-2021/8 | Odisha | 191 | 2.500 | 90000 |
| 15 | South Rewa | III | Talchir | SR-ONHP (CBM)-2021/9 | Odisha | 693 | 3.085 | 325500 |
| | | | | | Total Area | 8458 | | |

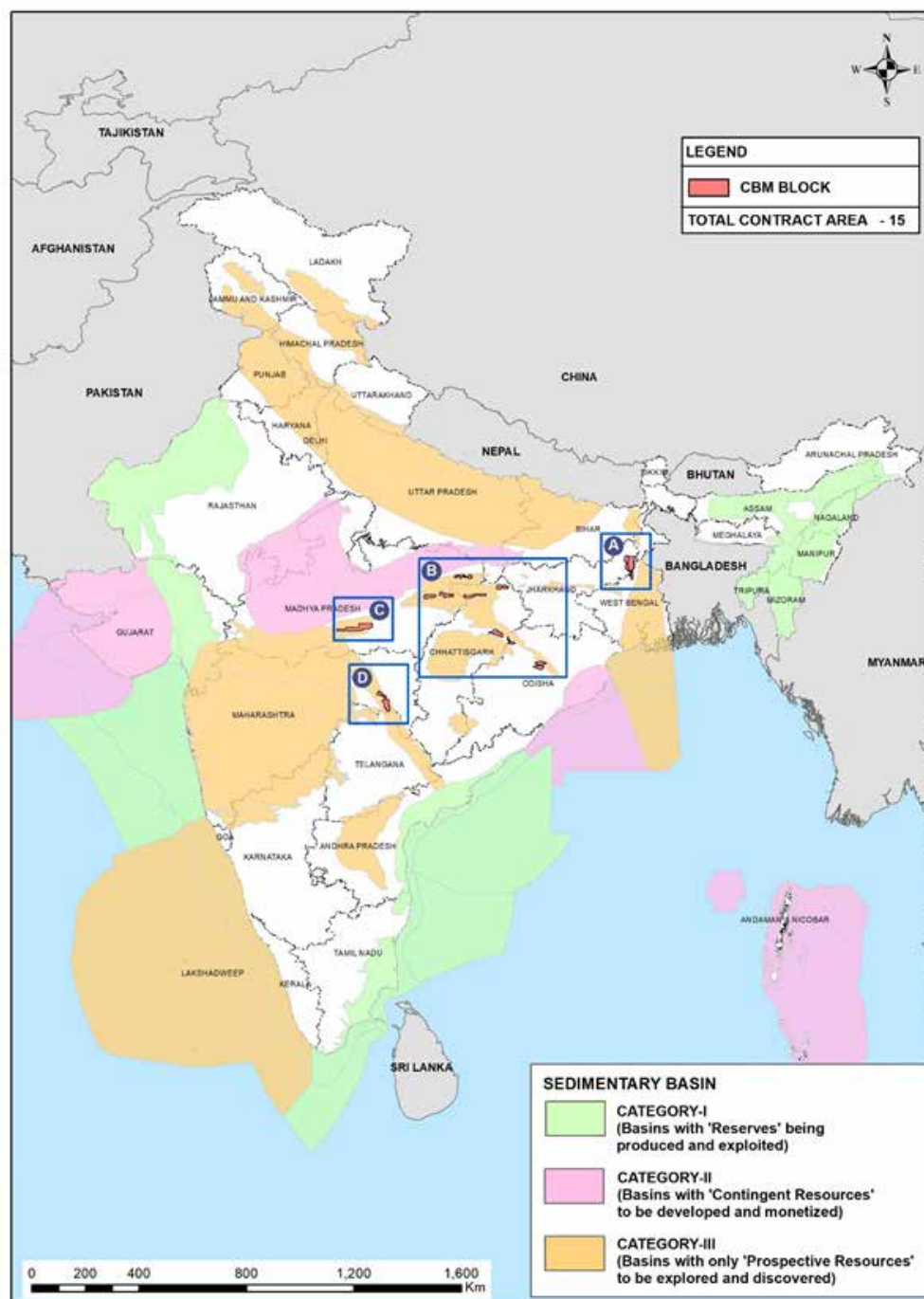
Note: Satpura and South Rewa are sub-basins of Satpura-South Rewa-Damodar Basin.

(Disclaimer): In case of any development between the publication of the NIO and final contract signing that makes any area out of bounds for E&P operations/bidding under this NIO due to any reason, as decided by the Government, the Government may modify the area in the map (provided that if such modification is for more than 50% of the area proposed in the NIO any bidder may withdraw its bid and its Bid Bond shall be refunded).



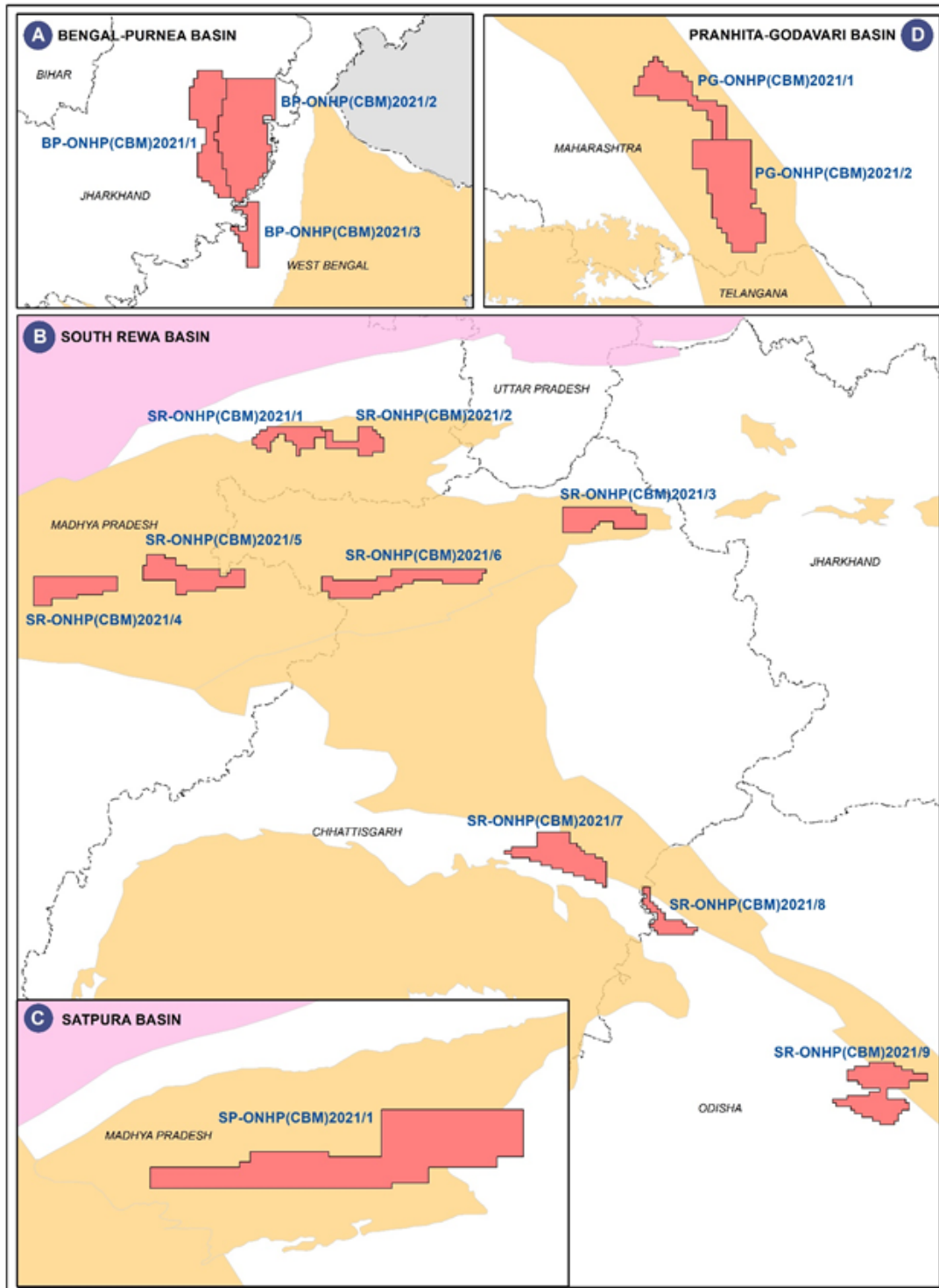


MAP OF INDIAN SEDIMENTARY BASINS





INDEX MAP OF OFFERED CBM BLOCKS





AREA OF INDIAN SEDIMENTARY BASINS

| S. NO. | BASIN | Basinal Area (Sq. Km.) | | | |
|---|-------------------------------|------------------------|---------------|------------|---------|
| | | Onland | Shallow Water | Deep Water | Total |
| CATEGORY-I (PROVEN COMMERCIAL PRODUCTIVITY) | | | | | |
| 1 | CAMBAY | 48882 | 4618 | - | 53500 |
| 2 | ASSAM SHELF | 56000 | - | - | 56000 |
| 3 | MUMBAI OFFSHORE | - | 118389 | 93611 | 212000 |
| 4 | KRISHNA GODAVARI | 31456 | 25649 | 172895 | 230000 |
| 5 | CAUVERY | 37825 | 43723 | 158452 | 240000 |
| 6 | ASSAM-ARAKAN FOLD BELT | 80825 | - | - | 80825 |
| 7 | RAJASTHAN | 126000 | - | - | 126000 |
| SUB TOTAL | | 380988 | 192379 | 424958 | 998325 |
| CATEGORY-II (IDENTIFIED PROSPECTIVITY) | | | | | |
| 8 | SAURASHTRA | 75076 | 42617 | 76421 | 194114 |
| 9 | KUTCH | 30754 | 20500 | 7300 | 58554 |
| 10 | VINDHYAN | 202888 | - | - | 202888 |
| 11 | MAHANADI | 15500 | 14211 | 69789 | 99500 |
| 12 | ANDAMAN | - | 18074 | 207844 | 225918 |
| SUB TOTAL | | 324218 | 95402 | 361354 | 780974 |
| CATEGORY-III (PROSPECTIVE BASINS) | | | | | |
| 13 | KERALA KONKAN | - | 90380 | 489620 | 580000 |
| 14 | BENGAL-PURNEA | 42414 | 33465 | 46035 | 121914 |
| 15 | GANGA PUNJAB | 304000 | - | - | 304000 |
| 16 | PRANHITA GODAVARI | 30000 | - | - | 3000 |
| 17 | SATPURA, SOUTH REWA & DAMODAR | 57180 | - | - | 57180 |
| 18 | HIMALAYAN FORELAND | 30110 | - | - | 30110 |
| 19 | CHHATTISGARH | 32000 | - | - | 32000 |
| 20 | NARMADA | 95215 | - | - | 95215 |
| 21 | SPLIT ZANSKAR | 32000 | - | - | 32000 |
| 22 | DECCAN SYNECLISE | 237500 | - | - | 237500 |
| 23 | CUDDAPAH | 40100 | - | - | 40100 |
| 24 | KAREWA | 6671 | - | - | 6671 |
| 25 | BHIMA & KALADGI | 14100 | - | - | 14100 |
| 26 | BASTAR | 5360 | - | - | 5360 |
| SUB TOTAL | | 926650 | 123845 | 535655 | 1586150 |
| TOTAL | | 1631856 | 411626 | 1321967 | 3365449 |

Note:

- Categorization based on the prospectivity of the basin as notified by the Government
- Area based on Hydrocarbons Resource Reassessment- 2017





GEOLOGICAL SET-UP OF SEDIMENTARY BASINS OF OFFERED BLOCKS

1. BENGAL-PURNEA BASIN

Bengal Basin is a potential petroleum province, characterized primarily by siliciclastic shelf margin sediments, situated along the east coast of Indian peninsula. 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 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 hydrocarbon accumulations often indicate charging from in-situ shallower biogenic source sequences. The existence of unexplored deeper plays has also been assessed through the petroleum system modelling studies. The basin has an area of 121,914 sq. km. with 42,414 sq. km. Onland area, 33,465 sq. km. Shallow Water area (upto 400m water depth) and 46,035 sq. km. Deep Water area. In the basin, 5 plays are identified within Gondwana-Cretaceous-Tertiary (Onland), 7 plays within Eocene-Pliocene (Offshore) and 3 plays within Gondwana (Karharbari-Barakar-Raniganj) of Purnea sub-basin. CBM Blocks in Bengal-Purnea are distributed across two coal fields.

1.a. RAJMAHAL COALFIELD, JHARKHAND

Rajmahal hills in Jharkhand show a vast expanse of Gondwana sediments below a thick cover of basaltic lava flows. This forms a part of extensive Tholeiite volcanic province, in which the heat flow from Lower Cretaceous Volcanics has locally metamorphosed the underlying Barakar coal seams to a varying degree. In some favourable thermal aureoles, coal seam gas is stored in the seams. CBM operation has commenced in a block, which lies adjacent to the block on offer.





The basin shows variation in coal formation north to south over a stretch of about 100 Km. In this belt, I – XV seams (1.0-13.3m) in north, nine seams in central part (0.5-28m) and four seams (2-32.3m) in the southern part are found to be developed. The cumulative average coal thickness is estimated at 40m. The coals correspond to High Volatile 'B' to 'C' rank with varying Vitrinite Reflectance (VRo) of 0.41 to 0.81%. The limited adsorption isotherm data shows a gas content of 7.1-8.7 m³/t at a pressure of 46 to 57 atmospheres. But due to under saturation of seams on account of periodic basin uplift, a conservative gas content of 3 m³/t is kept in view. The CBM gas in all probability is stored in seams, which are soaked to higher thermal regime associated with Rajmahal volcanism in localized area.

Two CBM blocks BP-ONHP(CBM)-2021/1 and BP-ONHP(CBM)-2021/2 covering an area of 564 and 991 Sq. Km respectively are on offer for CBM exploration and production.

1.b. BIRBHUM COALFIELD, WEST BENGAL

The Birbhum coalfield lie at the eastern end of the Damodar Valley trend and CBM blocks in both were awarded in the third CBM licensing round. The tectonic structure in the Rajmahal-Birbhum Group runs north-south with the major structures concealed beneath the Cretaceous Rajmahal basalt flows. The Birbhum basin is limited in the west by major fault, but opens and deepens towards the east (with speculation that the basin continues out towards Bangladesh). 40+ coal seams are reported, reducing in number and thickness from North to South, grouped in 3 major packages. The seams are interspersed with partings and coal seams are known not to be regionally persistent owing to the nature of the fluvial-deltaic depositional environment.

The distribution of vitrinite in the coals is extremely variable and ranges from as low as 16.5% to as much as 79.5%, with the average vitrinite content being 50.9%. These vitrinite contents are typical of Gondwana coals.

The gas content of 117 coal samples has been measured through desorption analysis to determine lost plus measured plus crushed gas content. The range in gas content is from 6.25 to 47.3 scf/t (0.17-2.19m³/t) with an average gas content of 22.4 scf/t (0.63m³/t).

One CBM block BP-ONHP(CBM)-2021/3 covering an area of 197 Sq.Km. is on offer for CBM exploration and production.





2. PRAHNITA-GODAVARI BASIN

The NW-SE trending Pranhita-Godavari Valley is unique as it preserves about 3000 m thick sediments deposited in a time span of 200 Ma from late Carboniferous/early Permian to Cretaceous. Most of the coalfields are located along the western margin at Sirpur, Bellampalli, Mandamari, Ramagundam, Chelpur, Pasra, Lingala, Kothagudem, Yellandu and Sattupalli, whereas Cherla and Manuguru are in the east. Generalised lithostratigraphic succession of the Godwana sediments includes Talchir, Barakar, Barren Measures, Kamthi (Lower Godwana Group), Maleri, Kota, Gangapur and Chikiala formations (Upper Gondwana Group). Resting unconformably over the Precambrian basement, Talchir Formation, 200-370 m thick, includes diamictite, rhythmite and light green sandstone in that sequence. Palaeocurrent direction is towards northwest. Glacial, glacio-lacustrine and glacio-fluvial depositional environments are favoured. The Barakar Formation is about 350 m thick and made of pebble beds and coarse feldspathic sandstone in the lower part and local-bearing finning-upward cyclothems in the upper part. In addition to *Glossopteris* sp., *Gangamopteris*, *Schizoneura* sp. and *Vertebraria* sp., Grey shale has yielded rich microfloral assemblage dominated by *Indotriradiites*, *Rhizamospora*, *Faunipollenites* and 2 *Scheuringipollenites* of Early Permian affinity. A 60-800 m thick, middle to late Permian Barren Measures Formation overlies the Barakar Formation with a normal contact. Light yellow feldspathic sandstone, siltstone and grey shale are prominent lithounits. *Glossopteris* flora and microflora characterised by *Densipollentites* and *Crescentipollinites* are recorded. The Pranhita-Godavari Gondwana basin consists of a series of NNW-SSE grabens and half-grabens. Three prominent fault patterns are identified viz. (i) NNW-SSE trending syn-depositional faults that controlled sedimentation and graben/half-graben development, (ii) NW-SE faults that imparted en-echelon fabric to southwestern margin and (iii) the NE-SW transverse faults, oriented parallel to the grain of the Eastern Ghat Mobile Belt transecting the Godavari valley basin into different sub-blocks. A 3000 m thick Gondwana lithic fill consisting of multifacies associations is preserved in this NWSE oriented intracratonic basin set across the Eastern Ghat Complex (EGC). The depositional environments varied from glaciolacustrine to highly sinuous fluvial. Phased uplift of the EGC during Mesozoic imparted changes to the Permian intercontinental drainage system, which started supplying increased amount of detritus to the basin. Basinal marginal faults were first formed at the beginning of the Triassic. CBM Blocks in Prahnita-Godavari Basin lie in Wardha coalfield. coal fields.





2.a. WARDHA COALFIELD, MAHARASHTRA

A large Gondwana basin extends along Godavari-Pranhita Valley from Andhra Pradesh to peninsular heartland in Maharashtra. The Gondwana belt in Maharashtra State is known as Wardha coalfield. This coalfield as in adjacent Godavari Coalfield in Andhra Pradesh shows a thick sequence of Gondwana rocks of Early Permian to Lower Cretaceous age. The coalfield has a thick cover of Lr. Triassic Kamthi Formation over the Barakar Coal measures. The gravity survey shows that the CBM blocks are located in gravity lows. The Barakar coal seams occur at a depth range of 300-1200m.

The Barakar Coal measures contain one main seam, which ranges in thickness from 5 to 15 m, the average thickness being 10m. The Coal is High Volatile Bituminous 'C' in rank with Vitrinite Reflectance varying from 0.5 – 0.66%. The adsorption isotherm shows 7-8 m³/t of gas at 600m depths. But the basin has witnessed repeated history of uplift, which may account for under saturation of gas in coal to some extent. An average gas content of 4m³/t is taken for assessment of gas-in-place resource.

Two CBM blocks PG-ONHP(CBM)-2021/1 and PG-ONHP(CBM)-2021/2 covering an area of 331 Sq. Km. and 709 Sq. Km respectively are on offer for CBM exploration and production.

3. SATPURA BASIN

Satpura is a sub-basins under Satpura-South Rewa-Damodar Basin.

Satpura Basin, a potentially Gondwana Basin of India, is located South of Narmada River and extends from Jabalpur to Lokartalai- Mohapani area. It is an intra-cratonic basin covering an area of 1200 sq. kms. Deposition of Gindwana sediments initiated during Late Carbiniferous time and continued through Permian right up to the Early Cretaceous time. The eastern and westernmost parts of the Satpura Basin are covered by Deccan Trap flows, which erupted during Late Cretaceous/Paleocene. The Satpura basin shows a restricted development of coal seams. Though the Upper Permian Bijori Formation contains thin lenticular bands of coal, workable coal seams are restricted to the Barakar Formation. In the eastern part of Pench valley, a number of coal seams are developed which attain significant thickness. In the western Pench valley and Kanhan valley areas, mainly one seam i.e., the Top seam is important though a few thinner seams are also developed. The basal 40-50 m of Barakar Formation is barren of any coal seams. The main coal seams are developed in the middle part of Barakar Formation whereas in the upper Barakar, only thin streaks of coal are reported. CBM Blocks in Satpura basin lies in Satpura coalfield





3.a. SATPURA COALFIELD, MADHYA PRADESH

Satpura Gondwana Basin along the Narmada valley contains a thick pile of Gondwana sequence of Lower Permian to Lower Cretaceous age. The Barakar Coal measures are exposed as a linear belt along the southern flank of the basin extending from PENCH valley, through Kanhan valley to Tawa valley in the west. In part of this coal belt, the coal seams in Kanhan – Eastern Tawa Valley area, witnessed an enhancement of rank and shows evidence of generation of substantial amount of methane. Several collieries viz Rakhicol, Damua and Kalichapper are classified as Degree III gassy mines. There are also evidences of gas seepages through faults and fissures in several parts of the coalfield.

The Barakar coal measures are covered by younger Moher and Bijori sediments (Upper Permian), which in turn are often capped by lava flows of Deccan Trap affinity.

A set of sub parallel basic dykes has intruded the coal measures and has often extended the rank of coal. In this coal belt 5 seams in eastern part (1.0-4.2m), 3 seams in central part (1-6m) and 4 seams (0.96-3.2m) are developed in Barakar Formation. The cumulative coal thickness is 8.0 –15.0m. The higher rank coals in central part shows a Vitrinite Reflectance of 0.8-0.99%. Adsorption isotherm shows a moisture-equilibrated gas content of 5.0-7.4 m³/t at 200m depths. In the CBM block where the coal seams occur in the depth range of 300-1200m, gas content is likely to be higher due to enhancement of rank at depths.

One CBM block SP-ONHP(CBM)-2021/1 covering an area of 1771 Sq. Km. is on offer for exploration and production of CBM.

4. SOUTH REWA BASIN

South Rewa is a sub-basin under Satpura-South Rewa-Damodar Basin. CBM blocks in South Rewa are distributed across 8 coal fields.

4.a. SINGRAULI COALFIELD, MADHYA PRADESH

Singrauli Coalfield is a major repository of coal in the heartland of the country. It is a composite basin composed of Moher sub-basin in the east and main sub-basin on the west which are separated by a concealed basement high. The Moher sub-basin is well known for prolific coal development where extensive mining operation is in progress. The main sub-basin has very large spread where the Barakar coal seams of Lower Gondwana sequence (Permian) are concealed below a variable cover of





younger sediments. The deeply buried coal seams of the main basin offers good prospect for CBM exploration.

The Barakar coal measures in the sub-basin where the CBM blocks have been carved out, contains eight coal seams. The adsorption isotherm for coal occurring at 300-600m depth level show gas content of 8.3-9.7 m³/t at pressure of 49.79-66.96 atmosphere.

The persistent development of moderately thick Barakar seams of high volatile bituminous B/C rank, with an average gas content of 4 m³/t with localized supply of heat from igneous intrusions, all in combination are likely to contribute to CBM gas generation and storage in seams.

Two CBM blocks viz. SR-ONHP(CBM)-2021/1 and SR-ONHP(CBM)-2021/1 covering an area of 272 Sq.km and 222 sq.km. respectively are on offer for exploration and production of CBM.

4.b. TATAPANI-RAMKOLA COALFIELD, CHHATTISGARH

The Tatapani-Ramkola is a composite basin comprising a northern strip of coal measures and associated Lower Gondwana referred to as Tatapani coalfield and a southern one called Ramkola coalfield. Structurally, the Tatapani-Ramkola coalfield defines a broad syncline with more or less east west trending axis. The CBM block covers a large part of the axial region of the syncline.

The trend of formations in northern limb is E-W with gentle dip of 7°-12° to the south. In the eastern end, the strike of the beds is N-S with westerly dip (10°-12°). In the southern/south-western side, the beds have gentle (4°-8°) north-westerly dip. The beds flatten out basin ward in the Panchet and Supra-Panchet Formation.

The CBM Block spans in the axial region of this coalfield where Barakars lie below a cover of Triassic and Upper Permian sediments of variable thickness as also, the fringe areas in southern and northern side where Upper Permian Raniganj Formation is exposed and Barakar coals occur at moderate depths. There are five to eight coal seam which occurs within 150m stratigraphic intervals. The Barakar seams are deeper than 1000m in the major areas in the central part where Triassic sediments are exposed. In the fringe parts where Barren Measures and Raniganj Formations are exposed the coal seams occur at 500m to 1000m depths. Coals are thicker (25-30m) in the southwestern part (ATR-5 & 7) and thins in the northern fringe area of the block.





Coal seam shows low ash content ranging from 10.5-14.8% and high percentage of vitrinite (up to 66%), moderate inertinite up to 35% and poor exinite (rarely exceeding 5%). The average gas content of the coal seam of the Block is 4m³/t.

The Coal of this Block shows vitrinite reflectance of 0.53% (high volatile bituminous 'B' rank). The Seams lying 18.25m below the intrusive show a high reflectance of 1.3% (medium volatile bituminous rank). Permeability of coal seam reservoirs is carried out by carrying out Injection Fall off tests. Few samples tested for Sandstone porosity by Helium method gave a range of 5.6 – 8.9 %.

One CBM block SR-ONHP(CBM)-2021/3 covering an area of 408 Sq.Km. is on offer for CBM exploration and production.

4.c. JOHILLA COALFIELD, MADHYA PRADESH

Johilla coal field is in South Rewa Gondwana Basin. Johilla coalfield is part of Umaria Coalfield which in turn is a part of Central India Coalfields. In Umaria Coalfield, the Lower Gondwana rocks are well developed. The block is largely covered by Supra Barakar Formation. Due to wide range of lithoassemblages and scanty exploration in the block, differentiation of different stratigraphic formations has not been established.

This coalfield is situated in the Valley of Johilla River. In this field, Talchirs, Barakars and beds of Raniganj age are developed. Johilla seam is the most important seam in the northern area. The seam has a high moisture (10.8%), ash (17.9%) and volatile matter content (31.7%).

One CBM block SR-ONHP(CBM)-2021/4 covering an area of 418 Sq. Km. is on offer for CBM exploration and production.

4.d. SOHAGPUR COALFIELD, MADHYA PRADESH

Encouraged by the result of exploratory drilling activities in the two CBM blocks awarded under CBM I round of bidding located in the central part of this coalfield, it was felt appropriate to carve out a block in the north-northwestern part of this coalfield. The northern part of Sohagpur coalfield has a complex history of dolerite intrusion, which may influence the generation of gas. The exploration in Nigwani-Bakeli area within the proposed block revealed the occurrence of Barakar coal measures below 300m cover of Barren Measure and Raniganj Formation.

Five regional seams are developed in Barakar Formation. The cumulative Coal thickness in the block varies from 3-10m. The borehole in CBM block shows that





coals attain higher rank with low moisture and high carbon content. Gas seepage in nearby area also indicates storage of gas in deeper seams. The adsorption isotherm of seam-I (558m) at 47.31 atmospheric pressure give moisture equivalent gas content of 6 m³/t. Proximity of the Sohagpur North block to the prospective CBM blocks in the central part of the Coalfield lends credence to the possibility that the fairways of the blocks in the southern part may extend to this northern sector.

One CBM block SR-ONHP(CBM)-2021/5 covering an area of 515 Sq. Km. is on offer for CBM exploration and production.

4.e. SONHAT COALFIELD, CHHATTISGARH

Sonhat coalfield occupies the central part of South Rewa coal belt in the state of Chattisgarh, M.P. The coalfield is located to the east of Sohagpur coalfield where two CBM blocks have been offered in earlier round of bidding. The Sonhat coalfield forms a plateau where Barakar coal measures, a middle barren horizon and Upper coal measures of Permian age are exposed. These sediments rest over the glaciogene Talchir rocks and are in turn overlain unconformably by Mahadeva Formation of Upper Triassic age. A thick dolerite body (132 – 132m) is emplaced within the Barakar Formation. Several ENE-WSW trending faults transect the Gondwanas, this will lead to better permeability.

The Barakar Formation has eight regional seams which are described as I to VIII from bottom to top. Among these, V, VI/VIA and VII seams are important persistent coal seams of the area. The cumulative coal thickness is about 15m over a major part of the coalfield. The Upper coal measures contain several thin lensoid coal seams. The Barakar coal seams are moderately high in rank and belong to high volatile bituminous 'A' to medium volatile bituminous rank. The desorption studies along with adsorption isotherm curves show that gas contents of the seams vary from 5 to 6 m³/t upto 600-700m depth. It may increase in deep seated coal seams.

One CBM block SR-ONHP(CBM)-2021/6 covering an area of 585 Sq. Km. is on offer for CBM exploration and production.

4.f. MAND-RAIGARH COALFIELD, CHHATTISGARH

Mand-Raigarh coalfield is located in the central part of the Mahanadi Valley Gondwana basin belt. It is flanked by Ib Valley coalfield in the east and Korba and Hasdo-Arand coalfields on the west and northwest. This master Gondwana basin is a major storehouse of coal and is conspicuous by the development of several thick





seams. this coalfield occurs in a relaxed stress regime with good fracture density and the coal seams may have good permeability for steady flow of methane.

There are total eleven seams recorded from Barakar Formation between the depth ranges of 149.89m and 1078.99m. The coal seam thickness ranges from 0.61m to 27.00m and were intersected between the depth ranges of 149.89m and 1078.99m, showing a wide variation of their development.

The coal seams by and large, correspond to high moisture (3.5-9.1%), high ash (20.3-48.8%) and high volatile (34.7-45.1%) category. Coal seams of Mand Raigarh coalfield show high percentage of vitrinite (11.9-88.3%), high inertinite up to 60% and moderate Liptinite (5.6-67.6%). The average gas content of the coal seam of the ranges from 2.16 -4.13 m³/t.

One CBM block SR-ONHP(CBM)-2021/7 covering an area of 590 Sq. Km. is on offer for CBM exploration and production.

4.g. IB VALLEY COALFIELD, ODISHA

IB valley Gondwana basin forms the central segment of the western Gondwana basin in the Mahanadi valley belt. This block covering 206 Sq. Km area lies adjacent to Mand -Raigarh coalfield in Chattisgarh state where CBM operation is currently in progress. The Ib valley coalfield is conspicuous by development of several persistent thick seams in Barakar Formation (Lower Permian) of which Lajkura and Rampur seams are important. The offered CBM block occupies the axial region of the Gondwana basin where the sediments are warped in a synclinal structure. In both the limbs, the Barakar coal seams have been probed below the younger cover of Kamthi Formation. The cumulative coal thickness is 40-50 m. The coals by and large correspond to High Volatile Bituminous 'B' to 'C' rank with VRo varying from 0.48% to 0.54%. A few adsorption isotherm data of coal samples from adjacent colliery area shows good gas content of 8.0 – 8.2 m³/t (moisture equilibrated) at 78-79 atmosphere pressures. But such coal seams are often under saturated due to periodic uprise of the basin and diffusive loss of gas. Accordingly, an average gas content of 3-4 m³/t can be taken with consideration for estimation of coal bed methane resource.

One CBM block SR-ONHP(CBM)-2021/8 covering an area of 191 Sq. Km. is on offer for CBM exploration and production.





4.h. TALCHIR COALFIELD, ODISHA

This coalfield is located in the southern end of the Mahanadi valley Gondwana belt in Orissa. Talchir coalfield is a large repository of coal in the country. Large part of the coalfield is covered by Barakar Coal measures (Lower Permian) and overlying Barren Measures Formation. Towards west, where the CBM block is carved out, the basin has a cover of Lr. Triassic Kamthi sediments, which overlies Barakar Formation with an angular unconformity. The Barakar Formation contains a number of thick coals of which seams I – XI are regionally persistent with a total thickness of 80m. Of these eleven seams, seam IX (maximum thickness 30.4 m), combined seam zone of VI/VII/VIII (32.3 – 66.6m), seam II (4.6 – 9.6m) and seam I (10m in split sections) are important. The chemical and petrological characters show that the seams generally correspond to High Volatile Bituminous 'C' category. The Vitrinite reflectance varies from 0.48 to 0.59%. The adsorption isotherm of seam I show a moisture-equilibrated gas content of 8.4 m³/t at a pressure of 79.5 atmosphere. In the CBM block, the coal seams occur at a depth of 600 -1200m and at such deeper levels, Talchir coals are likely to store moderate amount of gas.

One CBM block SP-ONHP(CBM)-2021/9 covering an area of 693 Sq. Km. is on offer for CBM exploration and production.





Annexure I

FORMAT FOR SUBMISSION OF BIDS FOR THE OFFERED OIL & GAS BLOCKS

Bids have to be submitted online in the E-Bidding portal specified: (ebidding.dghindia.gov.in), where detailed instructions would be 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 ebidding 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 this brochure, Bid Evaluation Criteria (BEC) provided in the NIO as well as the MRSC while formulating bid proposal. Bid not complying with the terms and conditions of the NIO and MRSC 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 as per NIO and MRSC may render the bid liable for rejection. The Government at its sole discretion reserves the right to accept or reject any or all of the bids received without assigning any reasons, whatsoever. The Government reserves the right to seek any clarification/ additional information to enable proper evaluation of bids. The bid application for a block, in duplicate, should provide the following information in such form and detail as specified. 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 and submit along with the bid. 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 | | |
| 3 | | |

b) Operatorship

| S. No. | Name of the proposed Operator(s) | Proposed Percentage of Participating Interest |
|--------|-------------------------------------|--|
| 1 | | |
| 2 | | |

*Multiple operators allowed only when Joint Operatorship is proposed.

II. Description of the Block bid for:

| Block Name | Basin Category | Map Reference No. of block as per NIO | Approx. area of the Block (sq. km.) | Geographic coordinates of the block as in NDR |
|------------|-------------------|--|---|--|
| | | | | |





II. a) 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.

| | | |
|---|---|---|
| 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 : Postal Code : |
| D | Authorised representative of the company for communication on the bid. | Name : Designation : Address : Tel. : Facsimile : |
| E | Name and address of the Chairman of its Board of Directors | |
| F | Name and address of the Chief Executive Officer | |
| G | Name and address of shareholders holding more than 10% (ten percent) 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 | 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 and loss statements alongwith 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 Financial Year as per this NIO. In case of Parent Company guarantee, this information of the Parent Company should also be provided. | |
| M | Number of total corporate employees of the company | |
| N | Number of employees engaged in E&P activities | |
| O | Details of judgments/arbitral awards against the company or consortium members and their Parent Company(ies) or any corporate member of the group of companies to which the bidder belongs, in the past 10 (ten) 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/Revenue Sharing Contract in India by the bidding company or any member company of the bidding consortium | |





III. b) 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 -II)

IV. Committed Work Programme:

| S. No. | Name of Block | Type of Work | Physical Quantity (in specified units) | Estimated Expenditure (in US\$) |
|--------|---------------|--------------|--|---------------------------------|
| 1 | | Core Hole(s) | (Numbers) | |
| 2 | | Test Well(s) | (Numbers) | |
| Total | | | | |

Timelines for execution of Committed Work Programme

| Year | Execution of Committed Work Programme |
|---|---------------------------------------|
| Year 1 | |
| Year 2 | |
| Year 3 | |
| Year 4 (For Deep and Ultra Deep Water blocks) | |

V. Biddable Share of Government Revenue (in case of Category-I Basins):

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

| Name of Block | Revenue | Percentage share of Revenue offered to the Government |
|---------------|--|---|
| | Less than or equal to LRP (USD 0.05 million per day) | |
| | Equal to or more than HRP (USD 7 million per day) | Bid can not exceed 50% |





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

Computed value of Average NPV will be displayed to the bidders in e-Bidding portal at the time of bidding, the same value would be used for bid evaluation.

Quote for Committed Work Programme and biddable share of Government Revenue shall not to be mentioned in hard copy submission.

VI. Information of Financial Capability:

The bidder is required to have adequate Net Worth as per the financial qualifying criteria and is required to submit Annual Reports and Net Worth Certificate as described in Chapter 4 of NIO.

VII. 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 as submitted under clause 4(ix):

Name of the Company:

| S. No. | Particulars | Amount* (US\$ mn) |
|---------------|---|--------------------------|
| A | Paid-up capital | |
| B | Reserve and Surplus | |
| C | Misc. Expenditure to the extent not written off | |
| D | Net Worth = A+B-C | |

VIII. Priority Ranking for assessing Net Worth:

Where a Consortium member/Individual Company has submitted bids for more than one block relative interest of consortium in different blocks





including all Onland Blocks, Shallow Water Blocks, Deep Water Blocks and Ultra Deep Water Blocks should be indicated as follows:

| Block Name (as per the NIO) | Priority Ranking |
|-----------------------------|------------------|
| | 1 |
| | 2 |
| | . |
| | . |
| | N |

Note: Priority rank for each block has to be unique. If the bidder allocates same priority rank in its bids for two or more blocks, then its bids for those blocks are liable to be rejected. Members of a consortium have to ensure that their priority is consistent with their bids in their individual capacity.

IX. Documents to be submitted along with the Bid:

- A Bid Bond for each of the block bid.
- Proof of payment of Tender Fees and purchase of Mandatory Data Package from NDR.
- Letter of presentation and commitment from the bidding company, and/or from the parent company, wherever applicable.
- Certificate from Statutory Auditor of the bidding company regarding the Net Worth.
- Documents evidencing the legal existence of the bidding company (including the Article of Association and the Memorandum of Association and Certificate of Incorporation/Registration of the Company).
- Documents in support of the financial and technical qualification.
- Audited Annual Reports, Balance Sheets and Profit and Loss statements in English language along with the schedule of notes forming part of the balance sheet for the latest completed year.





- h. Ample and sufficient power-of-attorney granted to a legal representative/ authorized representative of the company or leader of consortium.
- i. Consortium or association agreement, wherever applicable.
- j. Document whereby the parent company knows and endorses the bid and the contractual obligations of its affiliate or subsidiary, wherever applicable.
- k. BG in lieu of shortfall of Net Worth vis a vis value of Bid Work Programme, as applicable.
- l. A Board approval for delegation of authority for submission of the valid and binding bid.
- m. Notarized Solvency Declaration.

X. Production Record:

Annual production of (O+OEG) for the last 10(ten) years in Onland Blocks (including CBM), Shallow Water Blocks, Deep Water Blocks and Ultra Deep Water Blocks.

| Year | Annual production of oil (MBBL) | Annual production of solution gas (BCF) | Annual production of free gas (BCF) | Annual production of O+OEG (MMBOE) |
|-------------|--|--|--|---|
| FY[20..] | | | | |
| FY[20..] | | | | |
| FY[20..] | | | | |
| FY[20..] | | | | |
| FY[20..] | | | | |
| FY[20..] | | | | |
| FY[20..] | | | | |





| Year | Annual production of oil (MBBL) | Annual production of solution gas (BCF) | Annual production of free gas (BCF) | Annual production of O+OEG (MMBOE) |
|----------|---------------------------------|---|-------------------------------------|------------------------------------|
| FY[20..] | | | | |
| FY[20..] | | | | |
| FY[20..] | | | | |
| Average | | | | |

Note: The figures should be provided for preceding ten completed financial years to the NIO launch date.

XI. Information on Technical Capability (Operatorship and Acreage Holding):

| Operatorship Experience | Details |
|--|---|
| <p>In Onland Blocks/CBM</p> <p>Shallow Water Blocks (up to 400 m bathymetry)</p> <p>Deep Water Blocks (400-1500 m bathymetry)</p> <p>Ultra Deep Water Blocks (beyond 1500 bathymetry)</p> | <p>Name of blocks and supporting documents.</p> |
| Acreage Holding (PEL, ML) sq. km. | Names of blocks and sq. km. |





Annexure II

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 format given.

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

| S. No. | Full Name of Board of Directors | Date of Birth | Parent's Name | Complete/ Permanent Address | Nationality | Passport No. and Issue Date | Contact address & Telephone no. |
|--------|---------------------------------|---------------|---------------|-----------------------------|-------------|-----------------------------|---------------------------------|
| | | | | | | | |

(ii) For Companies/Firms

| S. No. | Full name of the companies and its foreign collaborator if any including details of Board of Directors as in (i) above | Date of Registration | Present and Permanent address including address of Head Office, Regional Offices and Registered Office | Link with other firm | Activities and other business owned | Name of CEO/ Partners | Shareholding pattern of Applicant/ Investing Company | Details of earlier approvals, if any, (Ref. No. & Date) | Ultimate ownership of shareholding companies and the investing company along with detailed particulars of owners | Presence of investing companies and shareholders in countries across the world, including collaborations with other foreign companies |
|--------|--|----------------------|--|----------------------|-------------------------------------|-----------------------|--|---|--|---|
| | | | | | | | | | | |





Annexure III

PROFORMA OF BID BOND TO BE SUBMITTED BY THE BIDDER PROFORMA BANK GUARANTEE TOWARDS BID BOND

(FROM A SCHEDULED COMMERCIAL BANK)

To,

The Secretary to the Government of India
Ministry of Petroleum and Natural Gas
Shastri Bhawan
Dr. Rajendra Prasad Marg,
New Delhi- 110001, India

1. Whereas Government of India (hereinafter referred to as "Government") has announced Hydrocarbon Exploration Licensing Policy ("HELP").
2. Whereas _____[Name of Company submitting the Bid/ Name of each company submitting the Bid as a consortium] having registered office at _____ (hereinafter referred to as "Company"/"Companies", which expression unless repugnant to the context or meaning thereof include all its/their respective successors, administrators, executors and assigns), is/ are desirous to submit a Bid for the block pursuant to Notice Inviting Offer (hereinafter referred to as "NIO") in relation to entering into Revenue Sharing Contract for the said block.
3. Whereas Company/Companies is/are required to submit a Bank Guarantee as per terms and conditions set out in NIO.
4. In consideration of Government having agreed to consider Bank Guarantee towards Bid Bond, in relation to entering into Revenue Sharing Contract for the block, to be submitted pursuant to NIO, by the Company/Companies, the Company /Companies has/have agreed to adhere to terms and conditions as set out in NIO for the block and to furnish to the Government a Bank Guarantee (hereinafter referred to as "Guarantee") towards its/their obligations as per





NIO, hereinafter referred to as the "Obligations" for an amount of US\$ _____ equivalent to _____ Indian Rupees for performance of such Obligations.

5. 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/Companies. 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/ any or all the Companies and shall remain valid, binding and operative against the Bank.
6. 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/Companies and notwithstanding any security or other guarantee that Government may have in relation to the Company's/ Companies' liabilities.
7. 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 NIO or to extend time of performance by the said Company/Companies 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/Companies and to forebear or enforce any of the terms and conditions of the NIO and we shall not be relieved from our liability by reason of any such variation, or extension being granted to the said Company/Companies or for any forbearance, act or omission on the part of Government or any





indulgence by Government to the said Company/Companies 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.

8. The Bank further agree that the Guarantee herein contained shall remain in full force during the period that is taken for the performance of Obligations 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.
9. This Guarantee shall not be discharged by any change in our constitution, in the constitution of Company/that of the any or all of the Companies.
10. The Bank confirms that this Guarantee has been issued with observance of appropriate laws of the country of issue.
11. 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.
12. 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_____ 20__ ('Expiry Date') and including ninety (90) days after the Expiry Date /extended date. Any claim under this Guarantee must be received before the expiry of ninety (90) days from the Expiry Date or before the expiry of ninety (90) days from the extended date, if any. If no such claim has been received by us within ninety (90) days after the said Expiry Date /extended date the Government's right under this will cease. However, if such a claim has been received by us within and up to ninety (90) days after the said Expiry 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 authorized officers has set its hand and stamp on this _____ day of _____ 20__ at _____.

The seal of _____ was hereto duly affixed by _____ this _____ day of _____ 20__ 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 1:
(Signature)
Full name and official address (in legible letters)
Date:

Witness 2:
(Signature)
Full name and official address (in legible letters)
Date:

*Bank Guarantee can be submitted in equivalent INR. For exchange rate FBIL² published rate of same day or previous working day may be used.

** Jurisdiction of the BG shall be New Delhi or Place of issuance of BG

²FBIL- Financial Benchmarks India (P) Ltd.





Annexure IV

PROFORMA OF BG IN LIEU OF NET WORTH

PROFORMA OF BANK GUARANTEE TO BE PROVIDED BY BIDDER FOR SHORT FALL IN NET WORTH (FROM A SCHEDULED COMMERCIAL BANK)

To,

The Secretary to the Government of India
Ministry of Petroleum and Natural Gas
Shastri Bhawan
Dr. Rajendra Prasad Marg,
New Delhi- 110001, India

1. In consideration of Government of India (hereinafter referred to as "Government") having agreed to consider bank guarantee for evaluation of Net Worth pursuant to terms and conditions of Notice Inviting Offer ("NIO") under Hydrocarbon Exploration and Licensing Policy (HELP) for entering into a Revenue Sharing Contract ("RSC") for the block _____, XYZ (Name of Company) 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' and 'RSC', hereinafter referred to as "the Obligation" for an amount of US\$ _____ equivalent to Indian Rupees _____ for the performance of the Obligation.
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 'RSC' 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 of 'NIO' or 'RSC' 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 the Obligation and all dues of Government under or by virtue of the Obligation 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 up to _____('Expiry Date') and including ninety (90) days after the Expiry Date/extended date. Any claim under this Guarantee must be received before the expiry of ninety (90) days from the Expiry Date or before the expiry of ninety (90) days from the extended date, if any. If no such claim has been received by us within ninety (90) days after the said Expiry Date/extended date the Government's right under this will cease. However, if such a claim has been received by us within and up to ninety (90) days after the said Expiry 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 authorized officers has set its hand and stamp on this _____ day of _____ 20__ at _____

The seal of _____ was hereto duly affixed by _____ this _____ day of _____ 20__ 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:

*Bank Guarantee can be submitted in equivalent INR. For exchange rate FBIL published rate of same day or previous working day may be used.

** Jurisdiction of the BG shall be New Delhi or Place of issuance of BG





Annexure V

NOTIONAL REVENUE PROFILES (USD MILLION/DAY)

| Years | Case I | Case II | Case III | Case IV |
|-------|--------|---------|----------|---------|
| 1 | 0.9087 | 0.3785 | 0.1059 | 0.0530 |
| 2 | 1.8174 | 0.7571 | 0.2119 | 0.1059 |
| 3 | 3.4018 | 1.5114 | 0.4909 | 0.2454 |
| 4 | 4.5342 | 1.7760 | 0.5740 | 0.2870 |
| 5 | 4.5342 | 1.7760 | 0.5740 | 0.2870 |
| 6 | 4.5342 | 1.7760 | 0.5740 | 0.2870 |
| 7 | 4.5342 | 1.7760 | 0.5740 | 0.2870 |
| 8 | 4.5342 | 1.7760 | 0.5740 | 0.2870 |
| 9 | 4.5342 | 1.7760 | 0.5740 | 0.2870 |
| 10 | 4.5342 | 1.7760 | 0.5740 | 0.2870 |
| 11 | 4.0965 | 1.5936 | 0.5010 | 0.2505 |
| 12 | 3.7245 | 1.4386 | 0.4390 | 0.2195 |
| 13 | 3.4075 | 1.3065 | 0.3862 | 0.1931 |
| 14 | 3.1368 | 1.1938 | 0.3411 | 0.1705 |
| 15 | 2.9052 | 1.0973 | 0.3025 | 0.1512 |
| 16 | 2.7065 | 1.0145 | 0.2694 | 0.1347 |
| 17 | 2.2980 | 0.8639 | 0.2328 | 0.1164 |
| 18 | 1.9701 | 0.7423 | 0.2022 | 0.1011 |
| 19 | 1.7025 | 0.6424 | 0.1762 | 0.0881 |
| 20 | 1.4811 | 0.5593 | 0.1541 | 0.0771 |

* Above Revenue Profiles are net of Royalty and Taxes.

* An Illustrative Average NPV calculator, utilizing the above revenue profiles, is being provided to the bidders at e-Bidding portal to assist their quote





Annexure VI

TENDER FEE, PRICE OF DATA PACKAGES AND DATA VIEWING CHARGES FOR SPECIAL CBM BID ROUND-2021

- Bidders will have to submit a non-refundable tender fee of INR 75,000 (seventy five thousand rupees) to be paid online to the DGH at the bidding stage.
- Minimum data purchase required for each block has been determined by DGH after reviewing the data for each block. This data purchase fees can be paid at the time of payment of the fees through the NDR portal and attach the evidence with the bid.
- Bidders can purchase/buy additional data at NDR published rates. These fees would be payable through NDR portal.

DATA VIEWING FACILITY

Physical data rooms with interpretation facility for Block on offer will be available at NDR, DGH, Noida. Data viewing facilities at other locations will be notified at DGH website.

The charges for data rooms per day per workstation: The charges for data rooms shall be as per National Data Repository Policy. To get more details please visit <http://ndrdgh.gov.in/>. The Indian companies will make the payment in equivalent INR at FBIL reference rate prevailing working day of date of payment.

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, 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, for further details, visit the DGH [website: www.dghindia.gov.in](http://www.dghindia.gov.in)

Mandatory Data Package Price List

| SL. NO. | BASIN NAME | BLOCK NAME | COST OF MANDATORY DATA PACKAGE (USD) |
|---------|-------------------|---------------------|--------------------------------------|
| 1 | Bengal-Purnea | BP-ONHP(CBM)-2021/1 | 50 |
| 2 | Bengal-Purnea | BP-ONHP(CBM)-2021/2 | 0 |
| 3 | Bengal-Purnea | BP-ONHP(CBM)-2021/3 | 50 |
| 4 | Pranhita-Godavari | PG-ONHP(CBM)-2021/1 | 10 |
| 5 | Pranhita-Godavari | PG-ONHP(CBM)-2021/2 | 220 |
| 6 | Satpura | SP-ONHP(CBM)-2021/1 | 50 |
| 7 | South Rewa | SR-ONHP(CBM)-2021/1 | 110 |
| 8 | South Rewa | SR-ONHP(CBM)-2021/2 | 1200 |
| 9 | South Rewa | SR-ONHP(CBM)-2021/3 | 550 |
| 10 | South Rewa | SR-ONHP(CBM)-2021/4 | 50 |
| 11 | South Rewa | SR-ONHP(CBM)-2021/5 | 960 |
| 12 | South Rewa | SR-ONHP(CBM)-2021/6 | 240 |
| 13 | South Rewa | SR-ONHP(CBM)-2021/7 | 500 |
| 14 | South Rewa | SR-ONHP(CBM)-2021/8 | 0 |
| 15 | South Rewa | SR-ONHP(CBM)-2021/9 | 0 |

Mandatory Data Package consists of selected 2D seismic lines, wells & well report from the available data in the block.

Bidders can purchase additional data over and above the mandatory data from NDR as per NDR rate list.

Quantum of data available in each block will be published by NDR separately.

Report of Hydrocarbon Resource Reassessment can be purchased from NDR web portal.





Annexure VII

CATEGORY-WISE LIST OF 26 SEDIMENTARY BASINS OF INDIA

Category-wise list of 26 Sedimentary Basins of India vide Government resolution no. O-12015(11)/1/2019-ONG-II

Category I

1. Krishna-Godavari Basin
2. Mumbai Offshore Basin
3. Assam Shelf Basin
4. Rajasthan Basin
5. Cauvery Basin
6. Assam-Arakan Fold Belt Basin
7. Cambay Basin

Category II

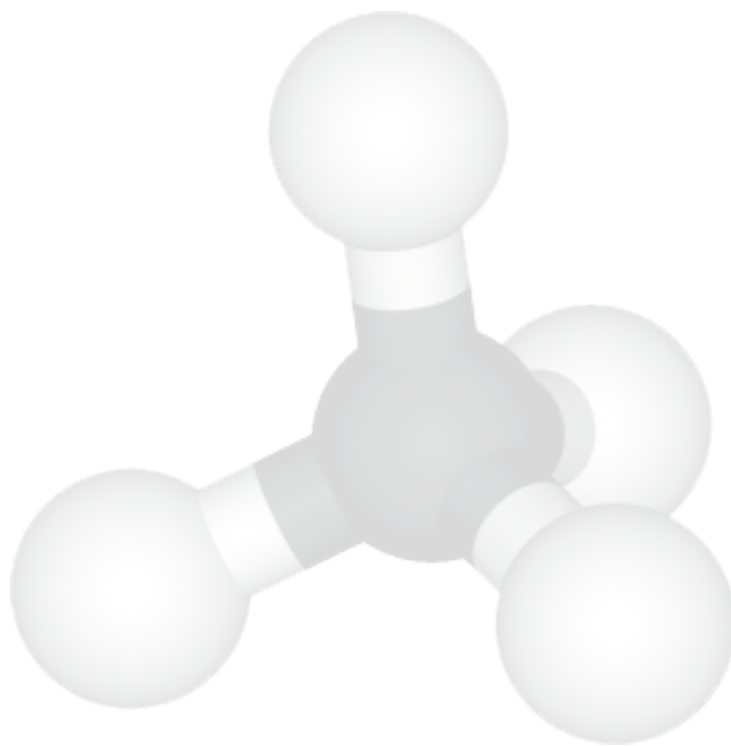
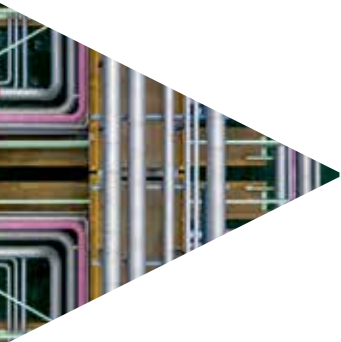
1. Saurashtra Basin
2. Kutch Basin
3. Vindhyan Basin
4. Mahanadi Basin
5. Andaman-Nicobar Basin

Category III

1. Kerala-Konkan Basin
2. Bengal-Purnea Basin
3. Ganga-Punjab Basin
4. Pranrita-Godavari Basin
5. Satpura-South Rewa-Damodar Basin
6. Himalayan Foreland Basin
7. Chhattisgarh Basin
8. Narmada Basin
9. Spiti-Zaskar Basin
10. Deccan Syncline Basin
11. Cuddapah Basin
12. Karewa Basin
13. Bhima-Kaladgi Basin
14. Bastar Basin



[illegible]



सत्यमेव जयते

Ministry of Petroleum & Natural Gas
Government of India