

LEGAL NOTICE NO. 150

REPUBLIC OF TRINIDAD AND TOBAGO

THE PETROLEUM ACT, CHAP. 62:01

ORDER

MADE BY THE MINISTER UNDER REGULATION 4 OF THE PETROLEUM

REGULATIONS

THE PETROLEUM REGULATIONS (SHALLOW WATER  
COMPETITIVE BIDDING) ORDER, 2018

WHEREAS the Minister of Energy and Energy Industries (“the Minister”) <sup>Preamble</sup> is empowered by section 6(3) of the Petroleum Act, Chap. 62:01 of the laws of the Republic of Trinidad and Tobago (“the Act”) inter alia to enter into and sign an agreement (“a production sharing contract”) for the purpose of carrying out petroleum operations relating to the exploration, production and disposition of petroleum:

And whereas the Minister has determined to enter into production sharing contracts in respect of the public petroleum rights for marine areas off the north, east and west coasts, of Trinidad and Tobago, more particularly described in Schedule 1 hereto:

And whereas in accordance with section 10 of the Act, the President may determine that the entry into production sharing contracts within the meaning of section 6 thereof, shall be subject to a procedure of competitive bidding in accordance with the Petroleum Regulations (“the Regulations”):

And whereas the President has determined that the entry into the production sharing contracts in respect of the public petroleum rights in the said marine areas off the north, east and west coasts shall be subject to a procedure of competitive bidding in accordance with the Regulations:

And whereas regulation 4 of the Regulations provides that where the President has under section 10 of the Act determined that an area shall be subject to competitive bidding, the Minister shall make an Order to that effect, which shall specify in respect of each area, the geographical description, the period during which the bids may be presented and any other conditions and details which the Minister may consider proper for the purpose:

Now, therefore, in exercise of the powers vested in the Minister under regulation 4 of the Regulations, the Minister makes the following Order:

Citation                    1. This Order may be cited as the Petroleum Regulations (Shallow Water Competitive Bidding) Order, 2018.

Areas subject to competitive bidding process                    2. The marine areas in respect of which the President has determined that the award of production sharing contracts concerning public petroleum rights shall be subject to a procedure of competitive bidding are divided into six blocks and are more particularly described in Schedule 1 and illustrated on the map in Schedule 2.

Schedule 1  
Schedule 2  
  
Bids invited                    3. Bids for production sharing contracts in respect of the blocks described in Schedule 1 are invited for the carrying out of exploration and production operations in the marine areas referred to in Schedule 2.

Form of and time for presentation of bids                    4. (1) Bidders shall present bids—  
  
   (a) in duplicate; and  
  
   (b) under confidential cover in sealed envelopes marked “Bid for Production Sharing Contract”,  
  
with the name of the block applied for clearly marked.

(2) Bids under sub-clause (1) shall be submitted to the Office of the Permanent Secretary, Ministry of Energy and Energy Industries, Level 26, Tower C, International Waterfront Centre, No. 1 Wrightson Road, Port-of-Spain, Republic of Trinidad and Tobago, West Indies.

(3) The submission of bids under sub-clause (1) shall take place from the date of this Order until 12.00 noon, six (6) months after the date of publication of the Order or the next business day upon which date and time bids will be closed.

(4) Bidders shall be at liberty to request, in writing or by telefax, any further information which may be required in order to complete a bid or any interpretation thereof, such request to be made to the—

Permanent Secretary  
Ministry of Energy and Energy Industries  
Level 26, Tower C  
International Waterfront Centre  
No. 1 Wrightson Road  
Port-of-Spain  
Republic of Trinidad and Tobago  
West Indies.  
Fax No. 1(868) 225-5746.  
E-mail Address: bidround@energy.gov.tt

(5) Persons interested in conducting exploration and production operations in any of the blocks described in Schedule I, shall submit a separate bid application in respect of each block.

(6) Notwithstanding anything to the contrary which may be contained in or implied in this Order, the Ministry of Energy and Energy Industries (“the Ministry”) does not bind itself to accept any bid or any part of a bid submitted pursuant to this Order and the Ministry further reserves the right to reject any and all bids.

(7) The Ministry shall notify unsuccessful bidders in writing as soon as possible after the award of production sharing contracts.

(8) After the public opening of bids, the Ministry may disclose the process, information relating to the examination, clarification, evaluation and comparison of bids or recommendations concerning the award of production sharing contracts.

(9) Any effort by a bidder to influence the Ministry in the process of examination, clarification, evaluation and comparison of bids and in decisions concerning the award of contracts may result in the rejection of the bidder’s bid.

Pre-bid  
application  
fee

5. (1) Persons intending to bid either individually or as a member of a consortium shall pay a pre-bid fee to the Permanent Secretary of the Ministry prior to the close of bids.

(2) The pre-bid fee under sub-clause (1) is the sum of forty thousand dollars in the currency of the United States of America (US\$40,000.00).

(3) Where a prospective bidder pays the pre-bid fee he shall be entitled to—

(a) receive the data package which shall include data for all blocks; and

(b) bid on any or all of the blocks.

(4) A bid shall not be accepted unless the bidder first pays the pre-bid fee referred to in sub-clauses (1) and (2)

Data packages 6. A data package referred to under clause 5 shall include—

(a) the Petroleum Regulations (Shallow Water Competitive Bidding) Order, 2018;

(b) the Model Production Sharing Contract, 2018 (“Model Production Sharing Contract”);

(c) the Model Joint Operating Agreement (JOA);

(d) the Local Content and Local Participation Framework for the Republic of Trinidad and Tobago dated 7th October, 2004; and

(e) relevant information with respect to the blocks for which bids may be presented.

Bid application fee 7. In addition to the pre-bid application fee, a bid application fee of fifty thousand dollars in the currency of the United States of America (US\$50,000.00), shall be payable to the Permanent Secretary in the Ministry, on submission of the application.

Information in support of bid 8. Every bid shall be accompanied by the following:

(a) a signed declaration, indicating that the Model Production Sharing Contract has been examined and the terms agreed to be presented in the Form set out in Schedule 3;

Schedule 3

(b) a summary of the proposals in respect of items referred to in clause 11(1) presented in the prescribed manner indicated in the Summary Bid Form set out in Schedule 4;

Schedule 4

Schedule 5 (c) cash flows in respect of the commercial evaluation presented in the prescribed manner indicated in the Form titled “Revenue/Cost Data used in Commercial Evaluation” set out in Schedule 5;

(d) documents demonstrating the legal identity of the bidder;

(e) evidence of technical capacity, competence and experience in petroleum operations and related activities of the bidder;

(f) documents showing the corporate and the financial structure and backing of the bidder; and

(g) such other details as the bidder may consider relevant.

Separate contract for each block 9. A production sharing contract will be issued in respect of each block described in Schedule 1

Requirement for bid proposal 10. A bid proposal shall provide for the maximum utilization of services and facilities available in Trinidad and Tobago in both the exploration and production phases of the contract.

Requirement for bid 11. (1) A bid shall conform to the provisions of the Model Production Sharing Contract referred to in clause 6(b) and shall contain proposals in respect of the following:

(a) a commitment to a work programme, (“the Minimum Work Programme”) which represents the applicant’s best efforts to explore the contract area based on his technical evaluation of the block;

(b) a commitment to spend such sum of money (“the Minimum Expenditure Obligation”) as shall be necessary to complete the Minimum Work Programme;

(c) proposals in the form set out in Schedule 4, for the sharing of petroleum produced from the contract area;

(d) for all Blocks, fifteen percent carried participation for the State in the first four years of the exploration period for all exploration operations, inclusive of appraisal operations; and

(e) a signature cash bonus which shall be payable on the issue of the production sharing contract.

(2) Where several bidders are awarded the same number of points, each bidder shall be required to bid an additional signature cash bonus for the purpose of determining the preferred bidder.

Evaluation of bids 12. A bid proposal shall be evaluated on the basis of—

(a) the provisions outlined in the Model Production Sharing Contract referred to in clause 6; and

Schedule 6 (b) the Point System to be used for evaluating bids set out in Schedule 6

Announcement of successful bids 13. Successful bids shall be announced within six months of the date of the close of bids.

Requirement of successful bidders 14. (1) A successful bidder wishing to be granted a production sharing contract shall—

(a) execute such Production Sharing Contract with the State within thirty (30) days of the notification of the successful bid;

Chap. 81:01 (b) before commencing petroleum operations in the licenced area, register under the Companies Act, Chap. 81:01 of the Republic of Trinidad and Tobago or be incorporated thereunder;

(c) deliver to the Minister guarantees for the total amount of the Minimum Work Programme committed to in clause 11(1) in the form of a bond or banker's guarantee or other form or guarantee acceptable to the Minister on or before the execution date of the Production Sharing Contract;

- (d) maintain such separate books of accounts with respect to petroleum operations in the licence area as may satisfy the Minister to whom responsibility for finance is assigned;
- (e) participate in the “National Oil Spill Contingency Plan” of the Government of the Republic of Trinidad and Tobago; and
- (f) comply with the Local Content Policy of the Republic of Trinidad and Tobago in effect and as may be amended from time to time.

(2) The Model Production Sharing Contract referred to in clause 6 and the bidder’s bid proposal pursuant to this Order shall be the basis for the issue of the production sharing contract to be entered into among the President, the Minister, and successful bidders.

(3) Failure to execute the production sharing contract referred to in sub-clause (1) (a) within thirty days of receipt of the notification of the success of the bid may result in the non-issue of the production sharing contract and the Ministry may proceed to commence discussions with the bidder who is next in line.

Issue,  
renewal and  
termination  
of production  
sharing  
contracts

15. (1) A production sharing contract shall be issued initially for a period of six years, in respect of each block listed in Schedule 1, but upon the achievement of a commercial discovery, it may be renewed, as to a part only of the contract area, for a term of twenty-five years from the effective date of the production sharing contract.

(2) Where a commercial discovery is not achieved within six years, the production sharing contract referred to in sub-clause (1) shall terminate automatically.

SCHEDULE I

(Clause 2)

THE AREAS SUBJECT TO COMPETITIVE BIDDING

The areas subject to Competitive Bidding comprises the six blocks of various shapes and sizes located, designated and described as specified hereunder and illustrated on the maps in the Schedule 2:

Coordinate System: GCS WGS 1984

Angular Unit: Degree (0.0174532925199433)

Prime Meridian: Greenwich (0.0)

Datum:

Spheroid: WGS 1984

Semimajor Axis: 6378137.0

Semiminor Axis: 6356752.314245179

Inverse Flattening: 298.257223563

**Block 1(B)**

Block 1(B) comprising approximately 57799 hectares (577.99 sqkm) situated off the Western Coast of Trinidad and Tobago is bounded by the lines joining the points listed hereunder and shown on the attached map.

Block 1(B)	Co-ordinates	
B.	10° 31' 56". N LAT.	61° 42' 53". W LONG.
C.	10° 31' 52". N LAT.	High Water Mark
D.	10° 24' 00". N LAT.	High Water Mark
E.	10° 24' 00". N LAT.	61° 32' 32". W LONG.
F.	10° 22' 22". N LAT.	61° 32' 12". W LONG.
G.	10° 20' 23". N LAT.	61° 31' 15". W LONG.
H.	10° 18' 32". N LAT.	61° 30' 52". W LONG.
I.	10° 18' 32". N LAT.	61° 42' 52". W LONG.

**Block NCMA 2**

NCMA 2 comprising approximately 101753 hectares (1017.53sqkm) situated off the North Western Coast of Trinidad and Tobago is bounded by the lines joining the points listed hereunder and shown on the attached map.

NCMA 2	Co-ordinates	
R.	11° 23' 13". N LAT.	61° 43' 27". W LONG.
S.	11° 23' 13". N LAT.	61° 14' 57". W LONG.
T.	11° 20' 29". N LAT.	61° 14' 58". W LONG.
U.	11° 11' 32". N LAT.	61° 14' 58". W LONG.
V.	11° 10' 13". N LAT.	61° 14' 57". W LONG.
W.	11° 10' 13". N LAT.	61° 27' 57". W LONG.
X.	11° 16' 14". N LAT.	61° 27' 57". W LONG.
Y.	11° 16' 14". N LAT.	61° 35' 58". W LONG.
Z.	11° 12' 44". N LAT.	61° 35' 58". W LONG.
AA.	11° 12' 44". N LAT.	61° 43' 27". W LONG.

**Block NCMA 3**

NCMA 3 comprising approximately 210674 hectares (2106.74 sqkm) situated off the North Western Coast of Trinidad and Tobago is bounded by the lines joining the points listed hereunder and shown on the attached map.

NCMA 3	Co-ordinates	
Pt. 1.	11° 10' 13". N LAT.	61° 27' 57". W LONG.
Pt. 2.	11° 10' 13". N LAT.	61° 14' 57". W LONG.
Pt. 3.	11° 2' 38". N LAT.	61° 14' 57". W LONG.
Pt. 4.	11° 2' 38". N LAT.	61° 3' 19". W LONG.
Pt. 5.	10° 52' 38". N LAT.	61° 3' 19". W LONG.
Pt. 6.	10° 52' 38". N LAT.	61° 9' 57". W LONG.
Pt. 7.	10° 50' 8". N LAT.	61° 9' 58". W LONG.
Pt. 8.	10° 50' 7". N LAT.	61° 45' 19". W LONG.
Pt. 9.	10° 54' 4". N LAT.	61° 43' 58". W LONG.
Pt. 10.	10° 54' 29". N LAT.	61° 43' 52". W LONG.
Pt. 11.	11° 2' 43". N LAT.	61° 43' 52". W LONG.
Pt. 12.	11° 2' 43". N LAT.	61° 39' 57". W LONG.
Pt. 13.	11° 4' 13". N LAT.	61° 39' 57". W LONG.
Pt. 14.	11° 4' 13". N LAT.	61° 31' 57". W LONG.
Pt. 15.	11° 6' 13". N LAT.	61° 31' 57". W LONG.
Pt. 16.	11° 6' 13". N LAT.	61° 29' 57". W LONG.
Pt. 17.	11° 10' 13". N LAT.	61° 29' 57". W LONG.

**BLOCK MODIFIED U(c)**

Block Modified U(c) comprising approximately 76515 hectares (765.15sqkm) situated off the Eastern Coast of Trinidad and Tobago is bounded by the lines joining the points listed hereunder and shown on the attached map

Block Modified U(C)	Co-ordinates	
I.	10° 22' 37". N LAT.	60° 22' 27". W LONG.
J.	10° 22' 37". N LAT.	60° 31' 34". W LONG.
K.	10° 25' 13". N LAT.	60° 31' 34". W LONG.
L.	10° 25' 13". N LAT.	60° 34' 21". W LONG.
M.	10° 19' 19". N LAT.	60° 34' 21". W LONG.
N.	10° 19' 17". N LAT.	60° 30' 34". W LONG.
O.	10° 17' 10". N LAT.	60° 30' 34". W LONG.
P.	10° 17' 10". N LAT.	60° 29' 59". W LONG.
Q.	10° 13' 59". N LAT.	60° 30' 01". W LONG.
R.	10° 13' 59". N LAT.	60° 33' 07". W LONG.
S.	10° 12' 13". N LAT.	60° 33' 07". W LONG.
T.	10° 12' 13". N LAT.	60° 34' 21". W LONG.
U.	10° 06' 20". N LAT.	60° 34' 21". W LONG.
V.	10° 02' 09". N LAT.	60° 32' 17". W LONG.
W.	10° 02' 10". N LAT.	60° 34' 21". W LONG.
X.	10° 01' 08". N LAT.	60° 34' 21". W LONG.
Y.	10° 01' 08". N LAT.	60° 31' 49". W LONG.
Z.	10° 01' 31". N LAT.	60° 31' 49". W LONG.
AA.	10° 01' 31". N LAT.	60° 30' 15". W LONG.
BB.	10° 01' 08". N LAT.	60° 30' 15". W LONG.
CC.	10° 01' 08". N LAT.	60° 28' 11". W LONG.
DD.	10° 03' 54". N LAT.	60° 28' 11". W LONG.
EE.	10° 03' 54". N LAT.	60° 27' 08". W LONG.
FF.	10° 06' 20". N LAT.	60° 27' 08". W LONG.
GG.	10° 06' 20". N LAT.	60° 21' 20". W LONG.
HH.	10° 08' 32". N LAT.	60° 21' 20". W LONG.
II.	10° 08' 32". N LAT.	60° 24' 55". W LONG.
JJ.	10° 12' 12". N LAT.	60° 24' 44". W LONG.
KK.	10° 12' 12". N LAT.	60° 21' 15". W LONG.

**BLOCK MODIFIED U(c)—Continued**

Block Modified U(C)	Co-ordinates	
LL.	10° 12' 41". N LAT.	60° 21' 15". W LONG.
MM.	10° 12' 41". N LAT.	60° 18' 11". W LONG.
NN.	10° 14' 13". N LAT.	60° 18' 10". W LONG.
OO.	10° 14' 13". N LAT.	60° 19' 13". W LONG.
PP.	10° 15' 28". N LAT.	60° 19' 13". W LONG.
QQ.	10° 15' 28". N LAT.	60° 19' 43". W LONG.
RR.	10° 19' 06". N LAT.	60° 19' 43". W LONG.
SS.	10° 19' 06". N LAT.	60° 19' 16". W LONG.
TT.	10° 20' 13". N LAT.	60° 20' 18". W LONG.

**BLOCK 4(c)**

Block 4(C) comprising approximately 42359 hectares (423.59sqkm) situated off the Eastern Coast of Trinidad and Tobago is bounded by the lines joining the points listed hereunder and shown on the attached map.

Block 4(C)	Co-ordinates	
Pt. 20.	10° 34' 37". N LAT.	60° 12' 50". W LONG.
Pt. 21.	10° 34' 37". N LAT.	60° 22' 27". W LONG.
Pt. 22.	10° 28' 33". N LAT.	60° 22' 27". W LONG.
Pt. 23.	10° 28' 32". N LAT.	60° 18' 41". W LONG.
Pt. 24.	10° 25' 52". N LAT.	60° 18' 43". W LONG.
Pt. 25.	10° 25' 54". N LAT.	60° 22' 27". W LONG.
Pt. 26.	10° 22' 38". N LAT.	60° 22' 27". W LONG.
Pt. 27.	10° 20' 14". N LAT.	60° 20' 17". W LONG.
Pt. 28.	10° 20' 14". N LAT.	60° 12' 50". W LONG.

**LOWER REVERSE L**

Lower Reverse L comprising approximately 36262 hectares (362.62sqkm) situated off the Eastern Coast of Trinidad and Tobago is bounded by the lines joining the points listed hereunder and shown on the attached map.

Lower Reverse L	Co-ordinates	
aa.	9° 50' 44". N LAT.	60° 53' 33". W LONG.
ab.	9° 55' 19". N LAT.	60° 53' 33". W LONG.
ac.	9° 55' 19". N LAT.	60° 44' 53". W LONG.
ad.	9° 56' 14". N LAT.	60° 44' 53". W LONG.
ae.	9° 56' 13". N LAT.	60° 34' 22". W LONG.
af.	9° 50' 34". N LAT.	60° 34' 22". W LONG.
ag.	9° 49' 44". N LAT.	60° 39' 57". W LONG.

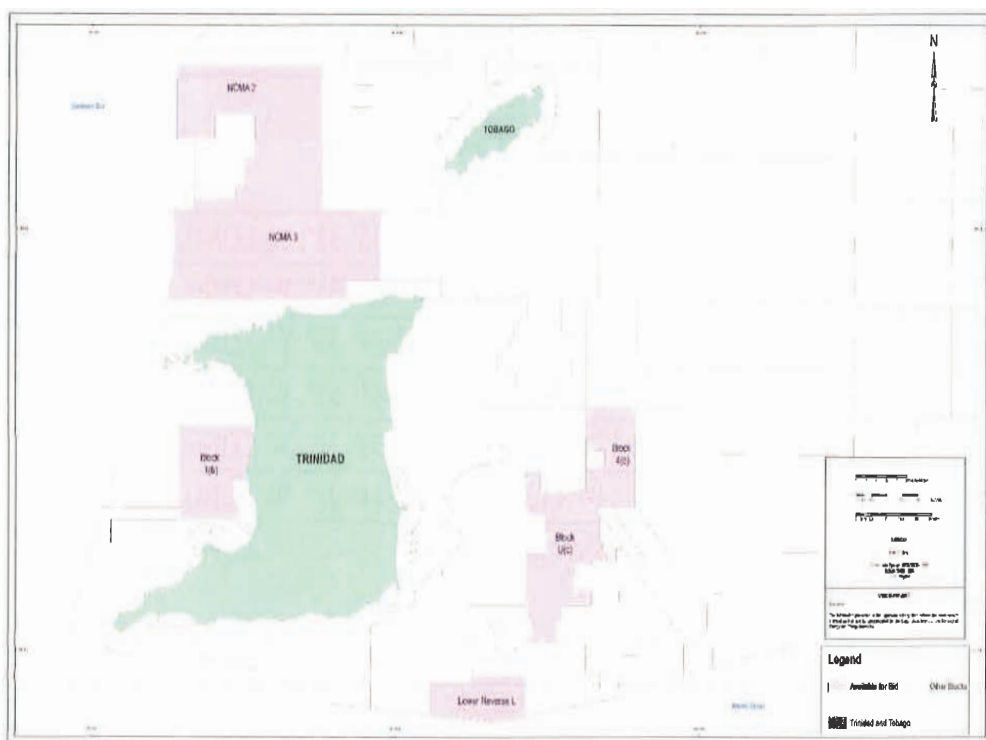
SCHEDULE 2

(Clause 2)

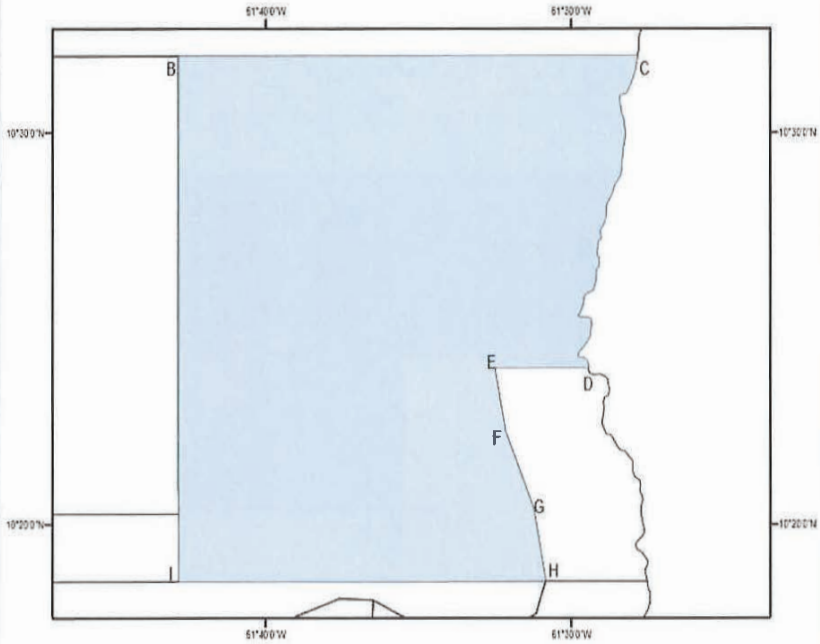


GOVERNMENT OF THE REPUBLIC OF TRINIDAD AND TOBAGO  
MINISTRY OF ENERGY AND ENERGY AFFAIRS

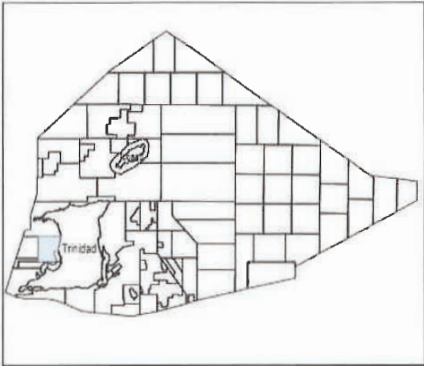
## SHALLOW WATER COMPETITIVE BID ROUNDS 2018



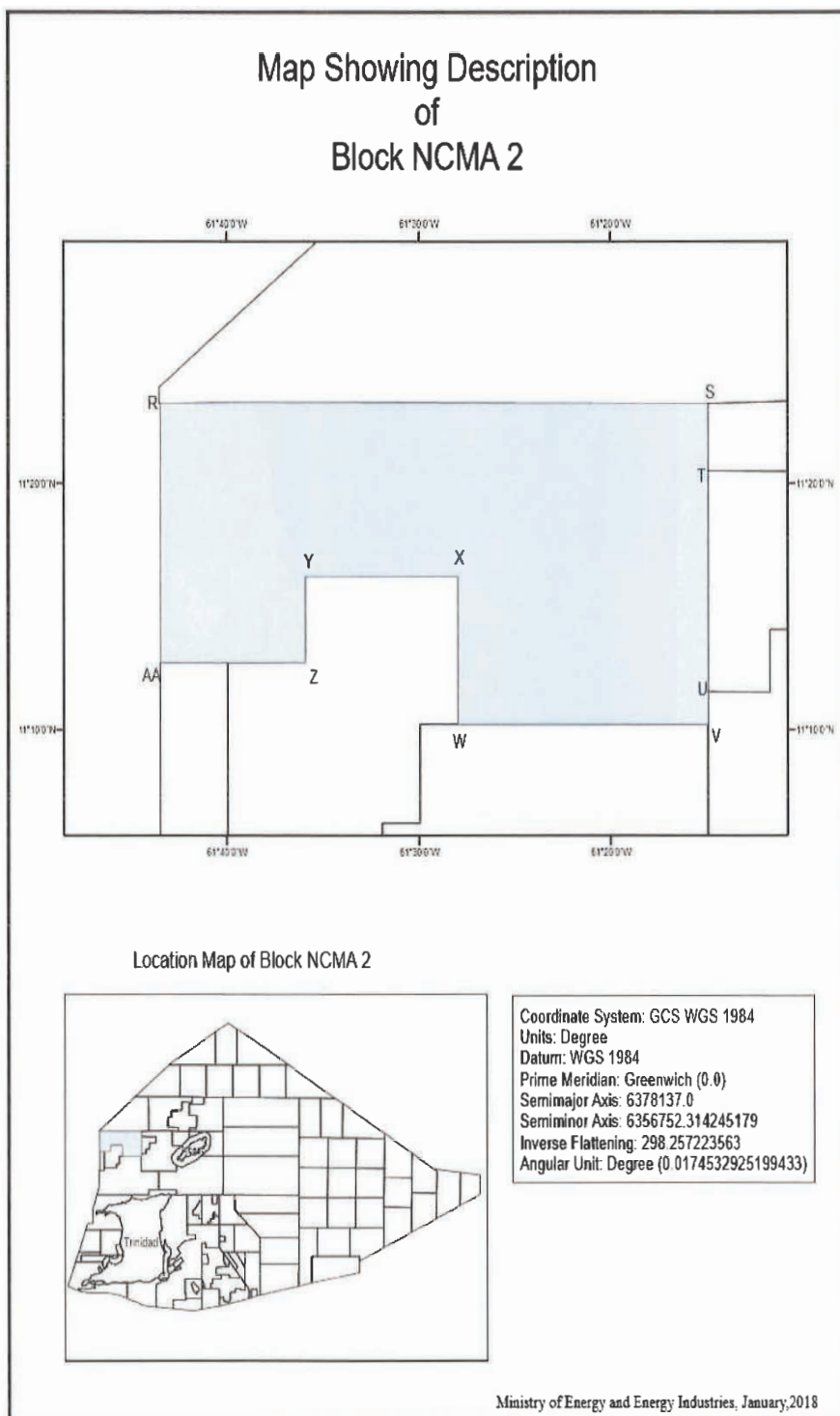
Map Showing Description  
of  
Block 1B



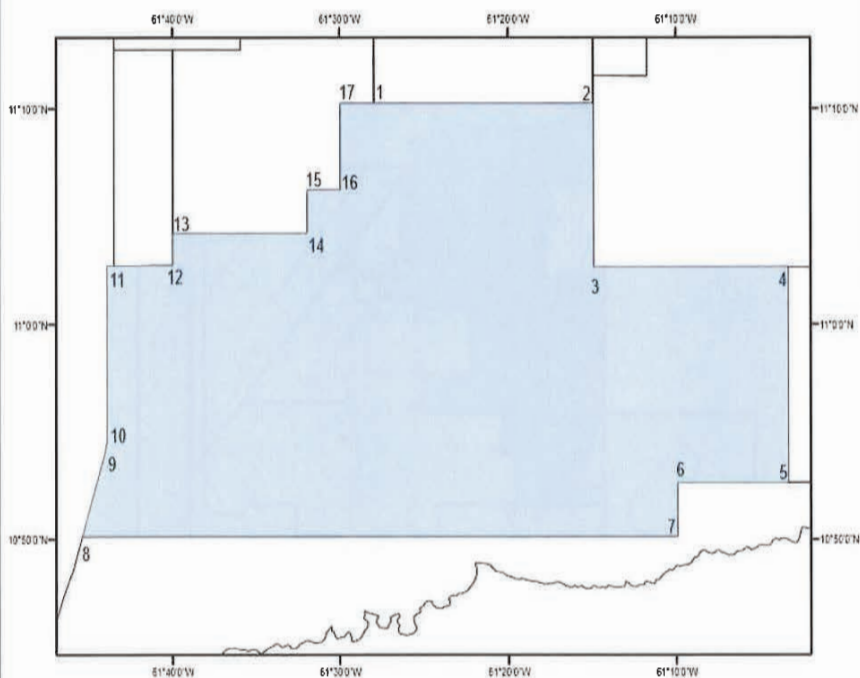
Location Map of Block 1B



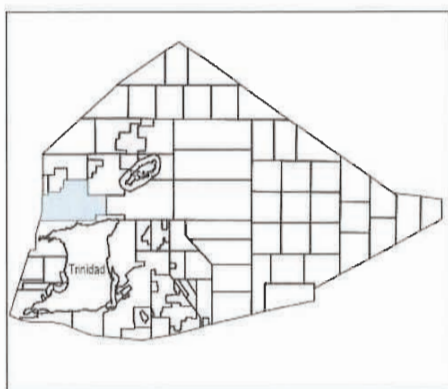
Coordinate System: GCS WGS 1984  
Units: Degree  
Datum: WGS 1984  
Prime Meridian: Greenwich (0.0)  
Semimajor Axis: 6378137.0  
Semiminor Axis: 6356752.314245179  
Inverse Flattening: 298.257223563  
Angular Unit: Degree (0.0174532925199433)



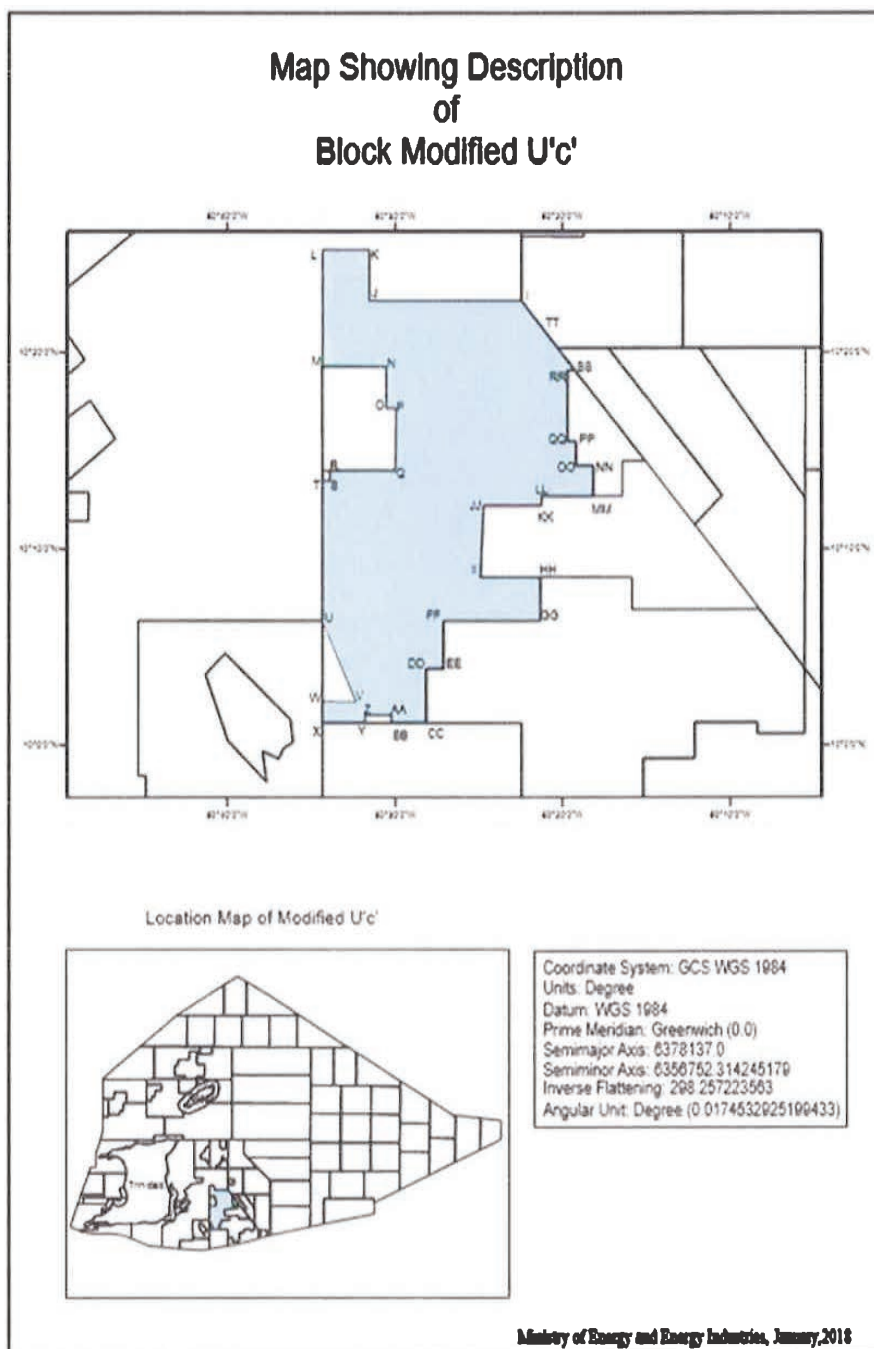
## Map Showing Description of Block NCMA 3



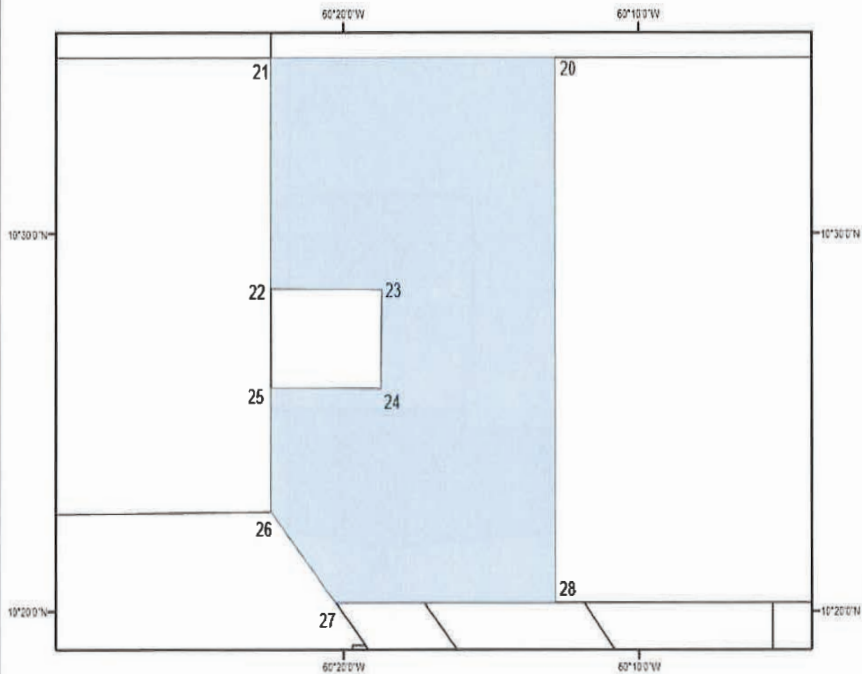
Location Map of Block NCMA 3



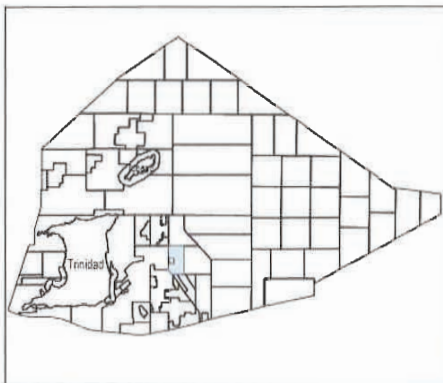
Coordinate System: GCS WGS 1984  
 Units: Degree  
 Datum: WGS 1984  
 Prime Meridian: Greenwich (0.0)  
 Semimajor Axis: 6378137.0  
 Semiminor Axis: 6356752.314245179  
 Inverse Flattening: 298.257223563  
 Angular Unit: Degree (0.0174532925199433)



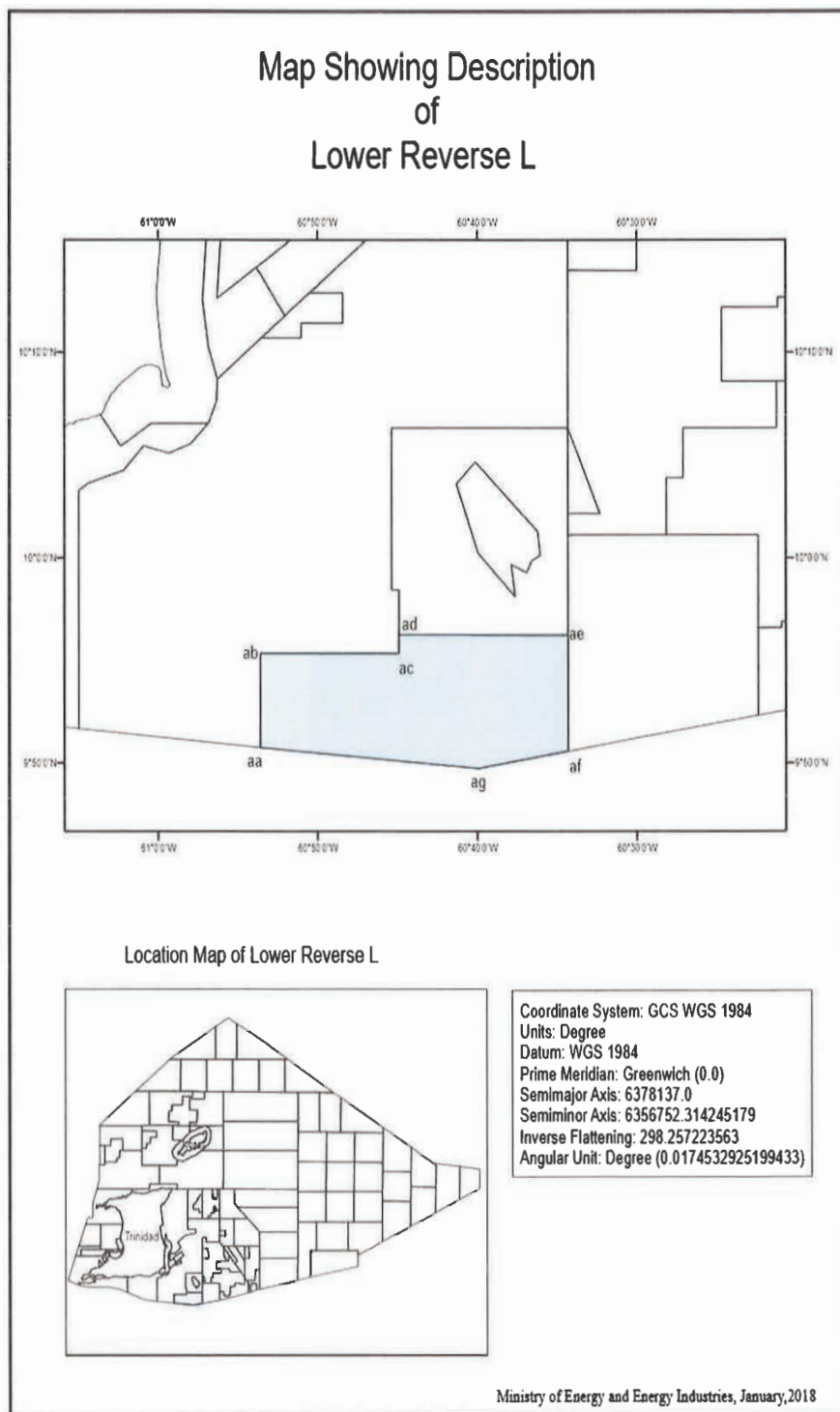
## Map Showing Description of Block 4C



Location Map of Block 4c



Coordinate System: GCS WGS 1984  
 Units: Degree  
 Datum: WGS 1984  
 Prime Meridian: Greenwich (0.0)  
 Semimajor Axis: 6378137.0  
 Semiminor Axis: 6356752.314245179  
 Inverse Flattening: 298.257223563  
 Angular Unit: Degree (0.0174532925199433)



SCHEDULE 3

[Clause 8(a)]

DECLARATION to be made by a duly authorized representative of the company

Company Name

Address

I, \_\_\_\_\_, of \_\_\_\_\_ in the (city/town) do solemnly declare that (X company) has accepted the provisions of the Model Production Sharing Contract and all its Annexes having analysed all its terms and conditions for submission of a response to the call for tender contained in the Petroleum Regulations (Competitive Bidding) Order, 2018. (X company) is therefore prepared to execute said production sharing contract without additions or erasures, exceptions being the bidded items submitted and accepted in response to the tender.

And I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath.

Commissioner for Oaths/Notary Public

Declared before me at the \_\_\_\_\_  
of \_\_\_\_\_  
in the \_\_\_\_\_, this \_\_\_\_\_  
day of \_\_\_\_\_ A.D., 2 \_\_\_\_\_  
\_\_\_\_\_

A Commissioner for Oaths/Notary Public  
for the (print or stamp name here)

MY APPOINTMENT EXPIRES: \_\_\_\_\_

(must be legibly printed or stamped \_\_\_\_\_)

SCHEDULE 4

[Clause 8(b)]

SUMMARY BID FORM

Blocks 1(B), NCMA 2, NCMA 3, Modified U(c), 4(c), Lower Reverse L

Term of Contract

1st Phase	... seismic option—2 years
1st Phase	... seismic and exploration drilling seismic and 1 well—3 years seismic and 2 wells—4 years seismic and 3 wells—5 years
2nd Phase	... exploration drilling
3rd Phase	... exploration drilling

Drilling of exploration wells is a requirement in the second and third phases of the exploration period.

MINIMUM WORK PROGRAMME

**Obligatory First Phase**

Work Units  
(US\$1MN equivalent to one work unit)

*Geophysical*

Seismic

3D Seismic (sq km) \_\_\_\_\_

Other Geophysical (line km/sq km) \_\_\_\_\_

*Geological*

Named Studies \_\_\_\_\_

*Drilling.*

Well 1	Depth	below mud line(m)	_____
Well 2	Depth		_____
Well 3	Depth		_____

SIGNATURE

BONUS

US\$ \_\_\_\_\_

**Optional Phases**

Work Units  
(US\$1MN equivalent to one work unit)

*Geophysical*

**SEISMIC**

3D Seismic (sq km)	_____
Other Geophysical (line km/sq km)	_____

*Geological*

Named Studies	_____
---------------	-------

*Drilling.*

Well 1	Depth	below mud line(m)	_____
Well 2	Depth		_____
Well 3	Depth		_____

## GOVERNMENT'S SHARE OF PROFIT CRUDE OIL (PER CENT %)

<i>Production Tier</i>	<i>Crude Oil Price Class</i>			
	A	B	C	D
Production up to 10,000 B/D	x	x	x	x
Production in excess of 10,000 B/D and up to 15,000 B/D	x	x	x	x
Production in excess of 15,000 B/D and up to 20,000 B/D	x	x	x	x
Production in excess of 20,000 B/D and up to 25,000 B/D	x	x	x	x
Production in excess of 25,000 B/D	x	x	x	x

Where:

Price Class A refers to Government's share for a Crude Oil price less than or equal to US\$45.00 per Barrel.

Price Class B refers to Government's share for a Crude Oil price greater than US\$45.00 per barrel but less than or equal to US\$65.00 per Barrel.

Price Class C refers to Government's share for a Crude Oil price greater than US\$65.00 per barrel but less than or equal to US\$90.00 per Barrel.

Price Class D refers to Government's share for a Crude Oil price greater than US\$90.00 per Barrel, the Government's share of Profit Crude Oil is equal to—

$$BR + 70\% [(P - US\$90.00)/P] (1 - BR)$$

Where:

BR refers to the Base Rates set out in Price Class D, and P is the Crude Oil price.

GOVERNMENT'S SHARE OF PROFIT NATURAL GAS (PER CENT %)

<i>Production Tier</i>	<i>Natural Gas Price Class</i>			
	A	B	C	D
Production up to 60 MMcfd	x	x	x	x
Production in excess of 60 MMcfd and up to 100 MMcfd	x	x	x	x
Production in excess of 100 MMcfd and up to 150 MMcfd	x	x	x	x
Production in excess of 150 MMcfd and up to 225 MMcfd	x	x	x	x
Production in excess of 225 MMcfd and up to 300 MMcfd	x	x	x	x
Production in excess of 300 MMcfd	x	x	x	x

Where:

Price Class A refers to Government's share for a Natural Gas price greater than zero or equal to US\$2.25 per Mcf.

Price Class B refers to Government's share for a Natural Gas price greater than US\$2.25 per Mcf but less than or equal to US\$4.00 per Mcf.

Price Class C refers to Government's share for a Natural Gas price greater than US\$4.00 per Mcf but less than or equal to US\$6.00 per Mcf.

Price Class D refers to Government's share for a Natural Gas price greater than US\$6.00 per Mcf, the Government's share of Profit Natural Gas is equal to—

$$BR + 70\% [(P - US\$6.00)/P] (1 - BR)$$

Where:

BR refers to the Base Rates set out in Price Class D, and P is the Natural Gas price.

SCHEDULE 5

[Clause 8(c)]

REVENUE/COST DATA USED IN COMMERCIAL EVALUATION

All amounts should be in constant 2019 US\$

		Assuming Discovery			Assuming Development				
					(a)	(b)	(a)	(b)	
		Exploration Costs (\$M)	Evaluation Costs (\$M)	Development Costs (\$M)	Production Costs (\$M)	Crude Oil Production (mmbbls)	Crude Oil Price (\$/bbl)	Natural Gas Production (bcf)	Natural Gas Price (\$/mmscf)
Year									
2019									
2020									
2021									
2022									
2023									
2024									
2025									
2026									
2027									
2028									
2029									
2030									
2031									
2032									
2033									
Please insert rows and further sheets if required									
TOTAL									

(a) Estimated value of development costs, production costs and production assuming development.

(b) Estimated value for evaluation purposes.

SCHEDULE 6

[Clause 12(b)]

POINT SYSTEM FOR USE IN THE EVALUATION OF BIDS RECEIVED  
Shallow Water Competitive Bidding Order, 2018

MINIMUM EXPLORATION PROGRAMME

**Block 1(B)**

Maximum Points for Minimum Exploration Work Programme: 100 Points

Total Points for Geophysical and Geological Work Programme: 25 Points as described in the Table Below

Work Item	Points per Unit	Maximum Points
1) Re process Existing 3D Seismic Data	10	10
2) <u>Seismic Acquisition:</u>  Acquire and Process full fold 3D Seismic	0.026 per km <sup>2</sup>	15
3) <u>Geophysical Studies</u>	1	5
4) <u>Geological Studies</u>	1	5
<b>Total</b>		<b>25</b>

NOTE: Bidders should provide details of studies proposed and illustrate their value in contributing to improving the understanding of the petroleum system—

**List of Studies**

- 1.1 AVO Analysis
- 1.2 Biostratigraphy
- 1.3 Core Analysis
- 1.4 Geochemistry
- 1.5 Maturation/Migration Studies
- 1.6 Petrophysics
- 1.7 Sedimentology
- 1.8 Seismic Attribute Analysis
- 1.9 Seismic Inversion
- 1.10 Sequence Stratigraphy
- 1.11 Structural Geology
- 1.12 Other Studies

**BLOCK 1(B)**

Total Points for Drilling:      75 Points as described in the Table Below

Points per Well Depth

<b>Cumulative Footage (True Vertical Depth)</b>		
	<b>Depth (m)</b>	<b>Points</b>
1	100	2.027
2	200	4.054
3	300	6.081
4	400	8.108
5	500	10.135
6	600	12.162
7	700	14.189
8	800	16.216
9	900	18.243
10	1000	20.270
11	1100	22.297
12	1200	24.324
13	1300	26.351
14	1400	28.378
15	1500	30.405
16	1600	32.432
17	1700	34.459
18	1800	36.486
19	1900	38.514
20	2000	40.541
21	2100	42.568
22	2200	44.595
23	2300	46.622
24	2400	48.649
25	2500	50.676
26	2600	52.703
27	2700	54.730
28	2800	56.758
29	2900	58.785
30	3000	60.812
31	3100	62.839
32	3200	64.865
33	3300	66.892
34	3400	68.919
35	3500	70.946
36	3600	72.973
37	3700	75.000

**BLOCK NCMA 2**

Maximum Points for Minimum Exploration Work Programme: 100 Points

Total Points for Geophysical and Geological Work Programme: 40 Points as described in the Table Below

<b>Work Item</b>	<b>Points per Unit</b>	<b>Maximum Points</b>
1) Reprocess Existing 3D Seismic Data	10	10
2) <u>Geophysical Survey Acquisition:</u>		
(a) Acquire and Process full fold 3D Seismic	0.015 per sq km	15
(b) Other Geophysical Surveys	0.010 sq km	10
3) Geological and Geophysical Studies	1	5
<b>Total</b>		<b>40</b>

NOTE: Bidders should provide details of studies proposed and illustrate their value in contributing to improving the understanding of the petroleum system—

**List of Studies**

- 1.1 AVO Analysis
- 1.2 Biostratigraphy
- 1.3 Core Analysis
- 1.4 Geochemistry
- 1.5 Maturation/Migration Studies
- 1.6 Petrophysics
- 1.7 Sedimentology
- 1.8 Seismic Attribute Analysis
- 1.9 Seismic Inversion
- 1.10 Sequence Stratigraphy
- 1.11 Structural Geology
- 1.12 Other Studies

**BLOCK NCMA 2**

Total Points for Drilling:      60 Points as described in the Table Below

Points per Well Depth

<b>Cumulative Footage (True Vertical Depth)</b>		
	<b>Depth (m)</b>	<b>Points</b>
1	250	2.143
2	500	4.286
3	750	6.429
4	1000	8.571
5	1250	10.714
6	1500	12.857
7	1750	15.000
8	2000	17.143
9	2250	19.286
10	2500	21.429
11	2750	23.571
12	3000	25.714
13	3250	27.857
14	3500	30.000
15	3750	32.143
16	4000	34.286
17	4250	36.429
18	4500	38.571
19	4750	40.714
20	5000	42.857
21	5250	45.000
22	5500	47.143
23	5750	49.286
24	6000	51.429
25	6250	53.571
26	6500	55.714
27	6750	57.857
28	7000	60.000

**BLOCK NCMA 3**

Maximum Points for Minimum Exploration Work Programme: 100 Points

Total Points for Geophysical and Geological Work Programme: 40 Points as described in the Table Below

<b>Work Item</b>	<b>Points per Unit</b>	<b>Maximum Points</b>
1) Reprocess Existing 3D Seismic Data	10	10
2) <u>Geophysical Survey Acquisition:</u>		
(a) Acquire and Process full fold 3D Seismic	0.0071 per sq km	15
(b) Other Geophysical Surveys	0.0048 per sq km	10
3) <u>Geological and Geophysical Studies</u>	1	5
<b>Total</b>		<b>40</b>

NOTE: Bidders should provide details of studies proposed and illustrate their value in contributing to improving the understanding of the petroleum system—

**List of Studies**

- 1.1 AVO Analysis
- 1.2 Biostratigraphy
- 1.3 Core Analysis
- 1.4 Geochemistry
- 1.5 Maturation/Migration Studies
- 1.6 Petrophysics
- 1.7 Sedimentology
- 1.8 Seismic Attribute Analysis
- 1.9 Seismic Inversion
- 1.10 Sequence Stratigraphy
- 1.11 Structural Geology
- 1.12 Other Studies

**BLOCK NCMA 3**

Total Points for Drilling:      60 Points as described in the Table Below

Points per Well Depth

<b>Cumulative Footage (True Vertical Depth)</b>		
	<b>Depth (m)</b>	<b>Points</b>
1	250	1.875
2	500	3.750
3	750	5.625
4	1000	7.500
5	1250	9.375
6	1500	11.250
7	1750	13.125
8	2000	15.000
9	2250	16.875
10	2500	18.750
11	2750	20.625
12	3000	22.500
13	3250	24.375
14	3500	26.250
15	3750	28.125
16	4000	30.000
17	4250	31.875
18	4500	33.750
19	4750	35.625
20	5000	37.500
21	5250	39.375
22	5500	41.250
23	5750	43.125
24	6000	45.000
25	6250	46.875
26	6500	48.750
27	6750	50.625
28	7000	52.500
29	7250	54.375
30	7500	56.250
31	7750	58.125
32	8000	60.000

**BLOCK MODIFIED U(c)**

Maximum Points for Minimum Exploration Work Programme: 100 Points

Total Points for Geophysical and Geological Work Programme: 30 Points as described in the Table Below

<b>Work Item</b>	<b>Points per Unit</b>	<b>Maximum Points</b>
1) <u>Seismic Acquisition:</u>  Acquire and Process full fold 3D Seismic	0.0258 per km <sup>2</sup>	20
2) <u>Geophysical Studies</u>	1	5
3) <u>Geological Studies</u>	1	5
<b>Total</b>		<b>30</b>

NOTE: Bidders should provide details of studies proposed and illustrate their value in contributing to improving the understanding of the petroleum system—

**List of Studies**

- 1.1 AVO Analysis
- 1.2 Biostratigraphy
- 1.3 Core Analysis
- 1.4 Geochemistry
- 1.5 Maturation/Migration Studies
- 1.6 Petrophysics
- 1.7 Sedimentology
- 1.8 Seismic Attribute Analysis
- 1.9 Seismic Inversion
- 1.10 Sequence Stratigraphy
- 1.11 Structural Geology
- 1.12 Other Studies

**BLOCK MODIFIED U(c)**

Total Points for Drilling:      70 Points as described in the Table Below

Points per Well Depth

<b>Cumulative Footage (True Vertical Depth)</b>		
	<b>Depth (m)</b>	<b>Points</b>
1	250	2.188
2	500	4.375
3	750	6.563
4	1000	8.750
5	1250	10.938
6	1500	13.125
7	1750	15.313
8	2000	17.500
9	2250	19.688
10	2500	21.875
11	2750	24.063
12	3000	26.250
13	3250	28.438
14	3500	30.625
15	3750	32.813
16	4000	35.000
17	4250	37.188
18	4500	39.375
19	4750	41.563
20	5000	43.750
21	5250	45.938
22	5500	48.125
23	5750	50.313
24	6000	52.500
25	6250	54.688
26	6500	56.875
27	6750	59.063
28	7000	61.250
29	7250	63.438
30	7500	65.625
31	7750	67.813
32	8000	70.000

**BLOCK 4(c)**

Maximum Points for Minimum Exploration Work Programme: 100 Points

Total Points for Geophysical and Geological Work Programme: 30 Points as described in the Table Below

<b>Work Item</b>	<b>Points per Unit</b>	<b>Maximum Points</b>
1) <u>Seismic Acquisition:</u>  Acquire and Process full fold 3D Seismic	0.047 per km <sup>2</sup>	20
2) <u>Geophysical Studies</u>	1	5
3) <u>Geological Studies</u>	1	5
<b>Total</b>		<b>30</b>

NOTE: Bidders should provide details of studies proposed and illustrate their value in contributing to improving the understanding of the petroleum system—

**List of Studies**

- 1.1 AVO Analysis
- 1.2 Biostratigraphy
- 1.3 Core Analysis
- 1.4 Geochemistry
- 1.5 Maturation/Migration Studies
- 1.6 Petrophysics
- 1.7 Sedimentology
- 1.8 Seismic Attribute Analysis
- 1.9 Seismic Inversion
- 1.10 Sequence Stratigraphy
- 1.11 Structural Geology
- 1.12 Other Studies

**BLOCK 4(c)**

Total Points for Drilling:      70 Points as described in the Table Below

Points per Well Depth

<b>Cumulative Footage (True Vertical Depth)</b>		
	<b>Depth (m)</b>	<b>Points</b>
1	250	3.500
2	500	7.000
3	750	10.500
4	1000	14.000
5	1250	17.500
6	1500	21.000
7	1750	24.500
8	2000	28.000
9	2250	31.500
10	2500	35.000
11	2750	38.500
12	3000	42.000
13	3250	45.500
14	3500	49.000
15	3750	52.500
16	4000	56.000
17	4250	59.500
18	4500	63.000
19	4750	66.500
20	5000	70.000

**LOWER REVERSE L BLOCK**

Maximum Points for Minimum Exploration Work Programme: 100 Points

Total Points for Geophysical and Geological Work Programme: 30 Points as described in the Table Below

<b>Work Item</b>	<b>Points per Unit</b>	<b>Maximum Points</b>
1) <u>Seismic Acquisition:</u>  Acquire and Process full fold 3D Seismic	0.055 per km <sup>2</sup>	20
2) <u>Geophysical Studies</u>	1	5
3) <u>Geological Studies</u>	1	5
<b>Total</b>		<b>30</b>

NOTE: Bidders should provide details of studies proposed and illustrate their value in contributing to improving the understanding of the petroleum system—

**List of Studies**

- 1.1 AVO Analysis
- 1.2 Biostratigraphy
- 1.3 Core Analysis
- 1.4 Geochemistry
- 1.5 Maturation/Migration Studies
- 1.6 Petrophysics
- 1.7 Sedimentology
- 1.8 Seismic Attribute Analysis
- 1.9 Seismic Inversion
- 1.10 Sequence Stratigraphy
- 1.11 Structural Geology
- 1.12 Other Studies

**LOWER REVERSE L BLOCK**

Total Points for Drilling:      70 Points as described in the Table Below

Points per Well Depth

<b>Cumulative Footage (True Vertical Depth)</b>		
	<b>Depth (m)</b>	<b>Points</b>
1	250	2.333
2	500	4.667
3	750	7.000
4	1000	9.333
5	1250	11.667
6	1500	14.000
7	1750	16.333
8	2000	18.667
9	2250	21.000
10	2500	23.333
11	2750	25.667
12	3000	28.000
13	3250	30.333
14	3500	32.667
15	3750	35.000
16	4000	37.333
17	4250	39.667
18	4500	42.000
19	4750	44.333
20	5000	46.667
21	5250	49.000
22	5500	51.333
23	5750	53.667
24	6000	56.000
25	6250	58.333
26	6500	60.667
27	6750	63.000
28	7000	65.333
29	7250	67.667
30	7500	70.000

<b>SHARING OF PRODUCTION</b>	<b>100 points</b>
Profit Crude Oil	50 points
Profit Natural Gas	50 points
<b>SIGNATURE BONUS</b>	<b>1 Pt/million US\$</b>

Dated this 7th day of November, 2018.

F. A. KHAN  
*Minister of Energy and  
Energy Affairs*