



REPUBLIC OF MOZAMBIQUE  
MINISTRY OF MINERAL RESOURCES

## MOZAMBIQUE FOURTH LICENSING ROUND

# APPENDIX B

## TECHNICAL SUBMISSION

All the technical documentation from the applicant to be given here:

**Completed Applications should be sent to:**

Please send / deliver your  
application to:

(See Guidance Notes)



**INSTITUTO NACIONAL DE PETRÓLEO**  
Av. Fernão de Magalhães nº 34 1º Andar  
CP nº 4724  
Maputo – Mozambique

**IMPORTANT NOTE:**

The technical submission shall contain the information requested on the following pages for *each* of the areas applied for.

Attached to the technical submission the applicant is requested to present brief and relevant documentation for each area of G&G studies and analyses focusing on aspects that are considered critical for an evaluation of the prospectivity of the area, such as:

- a brief and focused petroleum geological analysis, describing the prospectivity in the area applied for, critical factors, etc
- a brief description of the seismic interpretation, well ties, etc, including attached interpreted seismic sections
- time and depth structure maps for prospective horizons, showing all identified prospects and leads
- brief description of the prospect/lead evaluation
- description of the work programme and exploration strategy

The technical submission should also be provided on a separate DVD/CD-ROM which should have adequate resolution of all the figures in order to show relevant details.

**SECTIONS TO BE COMPLETED**

**B1 Applicant Regional Database Summary**

**B2 Individual Prospect / Lead Summary Sheets**

**B1 APPLICANTS REGIONAL DATABASE SUMMARY**

Summary of Applicants Regional Geotechnical Database:
Reports;
Seismic Data:
Well Data:
Non-Exclusive Multi Client Reports:
Gravity & Magnetic Data:
Other Data:

**B2. INDIVIDUAL PROSPECT / LEAD EVALUATION SHEETS**

As much information as possible should be filled in (leads are not expected to have a complete volume and parameter data set). The map with prospect/lead outline must have coordinates.

*(Please Note: Valid for EPCC application)*

Prospect /Lead name		Reference to seismic line(s)/seismic coverage:				
Prospect / Lead		Reported by (company & report reference / date)			Structural element	
Play					Ground level elev (m)	
CALCULATED HYDROCARBON VOLUMES						
Gas / Oil case	ORIGINALLY IN PLACE			RECOVERABLE		
	Low	Base	High	Low	Base	High
Gas Bcf						
Condensate / Oil MMbbbls						
Comments Calculate Volumes						
PROSPECT RISK ASSESSMENT						
Trap		Reservoir		Source		Result
Probability of structure	Probability of seal	Presence of Target fm	Probability of Reservoir Quality	Probability of Source	Probability of maturity /charge	Geol. probability of success:
Comments, Prospect Risk Assessment						
TRAP TYPE, RESERVOIR ROCK, SOURCE ROCK, CAP ROCK (SEAL)						
Type of trap (structural, stratigraphic, etc)			Reservoir level (Chronostrat./age)		Reservoir level (Lithostrat./fm)	
Source Rock (Chronostrat. /	Source Rock (Lithostrat./fm)	Seal (Chronostratigraphy /age )		Seal (Lithostratigraphy / formation)		
Comments:						
PARAMETRES USED IN VOLUME CALCULATIONS						
			Low	Base case (most likely value)	High	
Depth to top of prospect (m) (below Ground level)						
Depth to base of prospect (m) (closing contour)						
Milliseconds to top of prospect (ms)						
Milliseconds to base of prospect (ms)						
Area of closure (km <sup>2</sup> )						
Gross rock volume (10 <sup>9</sup> m <sup>3</sup> )						
Hydrocarbon column in prospect (m)						
Reservoir thickness (m)						
Net / Gross (N/G)						
Porosity ( φ )						
Water Saturation (Sw)						
Formation Volume Factor (FVF)		Bg				
		Bo				
Recovery factor						
Gas Oil Ratio (GOR), free gas (Sm <sup>3</sup> /Sm <sup>3</sup> )						
GOR, oil (Sm <sup>3</sup> /Sm <sup>3</sup> )						

<b>MAP – LEADS &amp; PROSPECTS</b>	
<b>PROSPECT / LEAD NAME:</b>	<b>BLOCK:(S)</b>

**SEISMIC LINE – SHOWING LEADS & PROSPECTS**

**PROSPECT / LEAD NAME:**

**BLOCK:(S)**

**WELL PROGNOSIS / STATIGRAPHIC COLUMN / GEOLOGIC CROSS SECTION**

**PROSPECT / LEAD NAME:**

**BLOCK:(S)**

**Petroleum geological analysis and prospectivity in the area applied for:**

[Empty box for content]

**Seismic Interpretation and Prospect Evaluation**

[Empty box for content]

**Summary of proposed of work program (RCC application):**  
*(Please complete the appropriate boxes and provide expected cost)*

<b>RCC Period (2 years):</b>	<p>Studies: _____ _____</p> <p>New Data: _____ _____</p> <p>Size/amount of each data type : _____</p> <p>USD (total and per data type): _____</p>
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**Summary of proposed of work program (EPCC application):**  
*(Please complete the appropriate boxes and provide expected cost)*

<b>First Exploration Period:</b>  __ months	Other:  Size: _____  USD: _____	2D Seismic Acquisition:  Size: _____  USD: _____	3D Seismic Acquisition:  Size: _____  USD: _____	Drill Expl. Well:  Depth: _____  Target _____  USD: _____
<b>Second Exploration Period:</b>  __ months	Other:  Size: _____  USD: _____	2D Seismic Acquisition:  Size: _____  USD: _____	3D Seismic Acquisition:  Size: _____  USD: _____	Drill Expl. Well:  Depth: _____  Target _____  USD: _____
<b>Third Exploration Period:</b>  __ months	Other:  Size: _____  USD: _____	2D Seismic Acquisition:  Size: _____  USD: _____	3D Seismic Acquisition:  Size: _____  USD: _____	Drill Expl. Well:  Depth: _____  Target _____  USD: _____

<b>Re-processing and re-interpretation of existing geotechnical data (seismic / well)</b> <i>(Please Note: Valid for EPCC application)</i>		
	<b>Line km Within the area applied for</b>	<b>Line Km Within Region</b>
Reprocessing		
New Interpretation		
Other (special studies)		

<b>Relinquishment as percentage of original concession area</b> <i>(Please Note: Valid for EPCC application)</i>		<b>Rel %</b>
RELINQUISHMENTS	At the beginning of 2 <sup>nd</sup> Exploration period	
	At the beginning of 3 <sup>rd</sup> Exploration period	

**Work Program and Exploration Strategy:**

*(Please Note: Valid for all application)*

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