DEMOCRATIC REPUBLIC OF SAO TOME AND PRINCIPE

MINISTRY OF INFRASTRUCTURE, NATURAL RESOURCES AND ENVIRONMENT

SAO TOME AND PRINCIPE
EEZ RESTRICTED BIDDING

APPENDIX B

TECHNICAL SUMMARY

Completed Applications should be sent to:

Please send / deliver your application to:

AGÊNCIA NACIONAL DO PETRÓLEO DE SÃO TOMÉ E PRÍNCIPE
Av. das de Nações Unidas Caixa Postal Nº 1048 São Tomé
São Tomé e Príncipe

Version	Issue Date
Final	*19.10.17*

IMPORTANT NOTE:

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

Attached to the technical summary the applicant is requested to present brief and relevant documentation (a maximum of 30 pages, including figures) 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, including estimated in-place and recoverable resources for each prospect/lead
- description of the work programme and exploration strategy

The technical summary should also be provided on a separate digital support which should have adequate resolution of all the figures in order to show relevant details. All maps should include coordinates.

Block Number:	**Summary of Hydrocarbon Systems:**	Stratigraphic column:

Block (Location):	**Reservoir Age:**	**Reservoir Formation:**

Source Rock Age:	**Trapping mechanism**:	**Estimated Reserves:** Probabilistic:

Mapped Horizon:

TWT, Velocity or Depth Map:

Mapped Horizon:

Geological Cross Section:

Prospect/Lead Summary: Resource Potential within the block

One row per prospect/lead. If several cases per prospect, use separate rows per case (oil vs gas)

Prospect/ Lead name	Prosp/ Lead	Unrisked recoverable resources						Probability of discovery %	Resources in acreage applied for %	Reservoir	
		Oil MMbbls			Gas bcf					Litho-/ Chrono-stratigraphic level	Reservoir depth (m MSL)
		Low	Base	High	Low	Base	High				

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INDIVIDUAL PROSPECT / LEAD EVALUATION SHEETS

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

Prospect /Lead name		Reference to seismic line(s)/seismic coverage:	
Prospect / Lead		Reported by (company & report reference / date)	Water depth (m)
Play	Block number(s)		

CALCULATED HYDROCARBON VOLUMES

Gas / Oil case	ORIGINALLY IN PLACE			RECOVERABLE		
	Low	Base	High	Low	Base	High
Gas Bcf						
Oil / Condensate MMbbls						
Comments, Calculated 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 sea 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^2)				
Gross rock volume (10^9 Sm^3)				
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^3 /Sm^3)				
GOR, oil (Sm^3 /Sm^3)				

Map of Location of selected Leads and Prospects in applied Block (with coordinates):

Map of Location of selected Leads and Prospects in applied Block (with coordinates):

Interpreted Seismic (Geosismic) profile showing Leads and/or prospects:		

Summary of Applicant Geological and Geophysical Database:

Summary of Geological and Geophysical Studies Undertaken

Proposal of work program:					

Exploration Period: Phase I (4 years)	2D seismic acquisition	Amount (km)	
		Expected cost (US$)	
	3D seismic acquisition	Amount (sq km)	
		Expected Cost (US$)	
	Exploration wells	Number	
		Depth (mss)	
		Stratigraphic Target	
		Expected Cost (US$ per well)	
	Other data (specify)		

Exploration Period: Phase II (2 Years)	2D seismic acquisition	Amount (km)	
		Expected cost (US$)	
	3D seismic acquisition	Amount (sq km)	
		Expected Cost (US$)	
	Exploration wells	Number	
		Depth (mss)	
		Stratigraphic Target	
		Expected Cost (US$ per well)	
	Other data (specify)		

Exploration Period: Phase III (2 Years)	2D seismic acquisition	Amount (km)	
		Expected cost (US$)	
	3D seismic acquisition	Amount (sq km)	
		Expected Cost (US$)	
	Exploration wells	Number	
		Depth (mss)	
		Stratigraphic Target	
		Expected Cost (US$ per well)	
	Other data (specify)		

Re-processing of existing 2D seismic data	
	Size (Line km)
Re-processing	