CLARIFICATION#2 AGAINST TENDER # PROC-SERVICES/CB/RMD-4699/2020: RESERVES EVALUATION STUDY-2020

Following Clarifications have been made in the subject tender:-

S.	Bidder's query	OGDCL reply
No.		
1	Please confirm that either both Prospective Resources and Contingent Resources to be included as well as reserves? And for the Resources, is an Expected Monetary Value (EMV) to be included (risked for Prospective resources?)	As per PRMS-2018 Prospective Resources, Contingent Resources and Reserves are required. Economics is needed for 1P, 2P & 3P Reserves only. For this study OGDCL don't need EMV for prospective resources.
2	For the FMV, Net Present Value (NPV) at a discounted rate of 10% (or more or less) is used mostly which is in line with PRMS evaluation. Different economic sensitivities can be run for static costs and escalated costs. Kindly confirm the discounted rate required in this case.	For DCF/NPV/IRR/FMV etc (4 discount rates) 10%, 15%, 18%, 25% should be used at Btax & Atax levels.
3	It has been mentioned that Decline Curve Analysis (DCA) to produce reserves and production forecasts. Are there any static models (in PETREL for example) and dynamic models (in ECLIPSE?). If NGL's LPG's and Sulphur production are to be included, this is more difficult to achieve without models. Please confirm the model being used for this and the format in which the data would be available.	For most important fields models are available mostly in PETREL. But if DCA used in some cases then yields and ratios can be used for Condensate, NGL, LPG, and Sulphur.
	Pease clarify the format of seismic data that how the seismic would be presented to us and in what form. (Kingdom project, PETREL, original format, SEGY, or other) and also the same for well logs.	This study is a Reserves Evaluation Study, so the main evaluation emphasis start from time/depth structure maps and so on as mentioned in TOR. However, if consultant needs seismic data for further validation or review then it can be provided in SEGY and PETREL also. Logs will be provided in ELAN and in pdf format.
	On the Annex-A there is a number 4. that specifies Projects Details where fields are tied in to about 9 different plants. Would it be possible to have	Projects Details: Tando Alam Oil Complex (TOC) (South)_All Fields are 100% own

a description of all the fields that are		1	
tied in to each plant?	Tando Alam Oil Field	Sono oil Field	
	Thora Oil Field	Lashari Center	
		Oil Field	
	Missan Oil Field	Palli Oil Field	
	Moolan North	Thora Oil Field	
		KPD (Kunnar	
	Deep/Pasahki Deep) _100% own		
	Kunnar Deep Gas Condensate	Pasahki Deep	
	Field	Gas	
		Condensate	
		Field	
	Kunnar West Gas Condensate	Moolan Gas	
	Field	Condensate	
		Field	
	Pasahki West Deep Gas	Thora Deep	
	Condensate Field	Gas	
		Condensate	
		Field	
	TAY (Tando Allahyar) _77.5% W.I		
	Chandio Gas Condensate Field	Dars Gas	
		Condensate	
		Field	
	Dars Deep Gas Condensate	Dars West Gas	
	Field	Condensate	
		Field	
	Kunnar South Gas Condensate	Pasakhi East	
	Field	Gas	
	Ticiu	Condensate	
		Field	
	Shah-01 Gas Condensate Field	Tando Allah	
		Yar Gas	
		Condensate	
		Field	

Tando Allah Yar North Oil Field	Tando Allah
	Yar SW Gas
	Condensate
	Field
Unar Gas Condensate Field	
Sinjhoro Project (South)_62.5%	W.I
Baloach Gas Condensate Field	Chak 2 Gas
	Condensate
	Field
Chak 63 Oil Field	Chak 63 SE Gas
Cilak 03 Oli Fielu	
	Condensate
	Field
Chak 66 NE Gas Condensate	
Field	Condensate
	Field
Hakeem Daho Gas Condensate	Lala Jamali Gas
Field	Condensate
	Field
	Field
Resham Gas Condensate Field	Field
Resham Gas Condensate Field	Field
Resham Gas Condensate Field Bobi Oil Complex (South)_100%	
Bobi Oil Complex (South)_100%	6 Own
Bobi Oil Complex (South)_100%	6 Own Mithrao Gas
Bobi Oil Complex (South)_100%	6 Own Mithrao Gas Condensate Field
Bobi Oil Complex (South)_100% Bobi Oil & Gas Field	6 Own Mithrao Gas Condensate Field
Bobi Oil Complex (South)_100% Bobi Oil & Gas Field Chak 5 Dim South Gas	Mithrao Gas Condensate Field Dhamraki Gas
Bobi Oil Complex (South)_100% Bobi Oil & Gas Field Chak 5 Dim South Gas	Mithrao Gas Condensate Field Dhamraki Gas Condensate Field
Bobi Oil Complex (South)_100% Bobi Oil & Gas Field Chak 5 Dim South Gas Condensate Field Nashpa-Mela Project (North)_5	Mithrao Gas Condensate Field Dhamraki Gas Condensate Field 6.45% W.I
Bobi Oil Complex (South)_100% Bobi Oil & Gas Field Chak 5 Dim South Gas Condensate Field Nashpa-Mela Project (North)_5 Nashpa Gas Condensate Field	Mithrao Gas Condensate Field Dhamraki Gas Condensate Field 6.45% W.I Mela Oil Field
Bobi Oil Complex (South)_100% Bobi Oil & Gas Field Chak 5 Dim South Gas Condensate Field Nashpa-Mela Project (North)_5 Nashpa Gas Condensate Field Suleman-Mithri Project (South)	Mithrao Gas Condensate Field Dhamraki Gas Condensate Field Mela Oil Field _77.5% W.I
Bobi Oil Complex (South)_100% Bobi Oil & Gas Field Chak 5 Dim South Gas Condensate Field Nashpa-Mela Project (North)_5 Nashpa Gas Condensate Field	Mithrao Gas Condensate Field Dhamraki Gas Condensate Field 6.45% W.I Mela Oil Field77.5% W.I Mithri Gas
Bobi Oil Complex (South)_100% Bobi Oil & Gas Field Chak 5 Dim South Gas Condensate Field Nashpa-Mela Project (North)_5 Nashpa Gas Condensate Field Suleman-Mithri Project (South) Suleman Gas Field	Mithrao Gas Condensate Field Dhamraki Gas Condensate Field 6.45% W.I Mela Oil Field
Bobi Oil Complex (South)_100% Bobi Oil & Gas Field Chak 5 Dim South Gas Condensate Field Nashpa-Mela Project (North)_5 Nashpa Gas Condensate Field Suleman-Mithri Project (South)	Mithrao Gas Condensate Field Dhamraki Gas Condensate Field 6.45% W.I Mela Oil Field
Bobi Oil Complex (South)_100% Bobi Oil & Gas Field Chak 5 Dim South Gas Condensate Field Nashpa-Mela Project (North)_5 Nashpa Gas Condensate Field Suleman-Mithri Project (South) Suleman Gas Field	Mithrao Gas Condensate Field Dhamraki Gas Condensate Field 6.45% W.I Mela Oil Field77.5% W.I Mithri Gas Field

	in with	
	Sinjhoro Block)	
Daru Complex (South) (Daru & Nim)		
Daru Gas Condensate Field-		
100% Own		
NIM Block Fields_(77.5% W.I)		
Chhuto Gas Condensate Field	Gopang Gas	
	Condensate	
	Field	
Jarwar Oil Field	Nim Gas	
	Condensate	
	Field	
Nim West Gas Field	Norai Jagir Gas	
	Condensate	
	Field	
Pakhro Gas Condensate Field	Saand Gas	
	Condensate	
	Field (Tie-in	
	with KPD-TAY	
	plant)	
Chhuto Gas Condensate Field		
UCH-I & UCH-II (Center)_100% Own (Two		
Contracts with Uch Power Limited)		
GUDDU EL (Center)_57.76%		

Would it be possible to have a summary table from the previous report to provide an idea of the relative value of each property such that we can prioritize the higher value (major) properties and isolate the minor properties.

The selection of higher value properties for CPR is dependent upon the discussion with Consultant to which study will be awarded. However, as per previous study following table shows the Oil & Gas Fields covering about 80% of remaining reserves

Oil Case	Gas Case
Nashpa-Mela	Nashpa-Mela
Project	Project
Pasakhi/Pasakhi N	KPD-TAY Project
Kunnar Oil Field	Sinjhoro Project
	Dakhni Project
Chanda	(Dakhni, Soghri,
	Jand)
Rajian	Zin
Kal	Qadirpur
TOC	Uch

	Thal Block (Thal	
	West, Thal East,	
	Bhambhra)	
	Suleman-Mithri	
	Project	
	GUDDU Project	
	Jhal Magsi South	
Number of files/ reservoirs to be looked at in total!	About 30 reservoirs are to be looked at in total.	
Client to confirm no review/building of	Yes existing models to be reviewed but building	
dynamic simulation model?	of new simulation models are not the part of this	
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	study.	
Client to confirm production forecast required will be based on MBAI,	Yes, production forecast required will be based on MBAI, DCA/performance based analysis.	
DCA/performance based analysis?	V 0000 III 11 11 11 11 11	
Timing of conpression: will client	Yes, OGDCL will provide provide existing surface	
provide existing surface facility diagram	facility diagram.	
or compression data to give idea of what exists?		
Will consultant be provided MBAI	Yes, Consultant be provided MBAI models, if any	
models, if any exists?	exists.	
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Client to confirm each field is to be	depends upon the development option of the new	
treated as a stand-alone i.e. no surface	discoveries.	
networking required?		
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