CLARIFICATION#3 AGAINST TENDER # PROC-SERVICES/CB/EXPL-3203/2018 INTEGRATED STUDY FOR STRATIGRAPHIC LEADS EVALUATION IN PALECONE & CRETACEOUS ZONES OF FATEHUPR AND LADHANA BLOCKS

Following Clarifications has been made in the subject tender.

S. No.	Clarifications	OGDCL Reply
	What data types exist in each well, including any	06 wells will be available as shown on the
	third party data e.g. biostratigraphic and	base map in TOR. All six wells are not located
	sedimentological reports?	inside the exploration blocks. 03 wells are
		tied with the seismic in the blocks under
		study as shown on the basemap.
		There is no seismic tie with the 02
		wells on the western side of the blocks.
		These wells are included to correlate the
		sequences with the eastern wells.
		petrophysical logs will be available
		for Ahmadpur-01 and Multan North-01
		Biostratigraphy reports are
		available for Anmadpur-01, Zindapir-01 and
		the area comprising the ovel
		blocks is covered with thick alluvium and
		there is no outcron/surface geology
		The well data interpretation will
		include Stratigraphic surfaces interpretation
		(based on GR. DT. PEF. RHOB. NPHI and
		biostratigraphy) will be available for study.
1		The previous reports will be shared for the
1		study.
		45 nos. of seismic lines (Aprox. 2400 line Km)
		08 Horizons and faults.
		Seismic data will be in time
		domain. a layer cake velocity model of the
		area is also available and the TWT seimic
		can be converted into Depth using the
		Velocity model.
		stacking velocities and calibrated
		Stacking velocity model will be included.
		Logs in the zone of interest:
		1 Multan North-01
		Wireline logs: BS_CAL_GR
		HDRA, NPHI, RHOB, SP, PF, TENS, DT
		Calculated: P-Impedance.
		Discrete Lithology log
		2) Bahu-01
		Wireline logs: DT, GR, CAL,
		RS, BIT, ResMLL, SP, RUK, PEF, NPHI, RHOB
		3) Zakria-01
		Wireline logs: GR, DT

		4) Dhodak
		Wireline logs: GR, LLD, LLS,
		NPHI, RHOZ, DT
		5) Zindapir-01
		Wireline logs: DT, GR, LLD,
		LLS, MSFL, NPHI RHOB
		6) Ahmadpur-01
		Wireline logs: C1,
		DRHO, DT, ILD, ILM, LLD, LLS, MSFL, NPHI,
		PEF, RHOB, ReSFLU, SP, CAL, GR
		Calculated: P-Impedance,
		Discrete Lithology log
	2D seismic coverage does not permit robust	This point is mentioned in the last sentence
	enough definition of stratigraphic traps. Every	of the 'introduction to the area in TOR'. If
	effort would be made to give an understanding	the available seismic/well data will not be
	of the risk factors and prospectivity but overall	enough for the prospect status to be
	resource estimation may be extremely uncertain	achieved, then the consultant will
2	if there is only 2D seismic coverage. Therefore,	recommend the further work plan keeping in
	does agreement exist on the fact that it could be	mind the cost and time factors for the work
	possible for lead potential to be identified but	plan.
	definition sufficient enough to achieve 'prospect'	
	status is not possible.	
	Will basin modelling data be made available,	The inhouse basin study team have done
	including fluid type and properties, for review of	basin modeling and there work will be shared
3	the petroleum systems and potential	with the consultant.
	prospectivity?	
	What are the specific reservoir objectives?	The targets are the paleocene and
		cretaceous clastic plays, i.e., sandstone. A
Δ		well on the eastern side of the blocks has
4		encountered an oolitic shoal in late
		cretaceous, so the oolitc shoals can also be
		targets if can be identified on the seismic.
	Specifically, what type of base maps are	Based on the observations/interpretations
	required?	on seismic and the wells, paleo environment
		maps at different levels showing in detail the
		depositional elements in the major
5		environments are required. These maps will
		then be put in a sequence stratigraphic
		framework for reservoir and seal
		distributions and identify the prospective
		zones.
	Does the 2015 2D seismic survey adequately	There are some old vintage seismic lines in
6	image the objective zones and is this survey the	the blocks with poor data quality for
	entirety of the seismic data available, or are	sequence stratigraphic interpretation and
	other 2D surveys included in the data pack?	will not be included in the data pack. The
		2015 vintage seismic have high signal to
		noise ratio and the vertical resolution can be
		improved on some lines through spectral
		decomposition.