

**CLARIFICATION#1 AGAINST TENDER # PROC-SERVICES/CB/EXPL-4722/2020 INTEGRATED SEQUENCE STRATIGRAPHIC STUDY OF LOWER GORU AND SEMBAR FORMATIONS IN SINJHORO EL AND ALLIED D&PLS FOR THE DELINEATION OF STRATIGRAPHIC/COMBINATION LEADS & PROSPECTS**

Following Clarification has been made in the subject tender.

S. No.	Clarifications	OGDCL Reply
1	<p>It is mentioned that contractor is supposed to do the integration of previous work with addition of new data from Sinjhoru block. Clarification: Please share details of previous work, will it be a report? Or there's sequence stratigraphic interpretation/models in digital format that will be shared for integration?</p>	<p>It is clarified that we do not have any type of study to share with contractor. Our understanding with previous work done is that the all available G&amp;G data which is mentioned in data list along latest reprocessed 3D PSTM data of 950 sq. km and all other data that will be acquired up to end of phase-II of the study, will be incorporated.</p>
2	<p>Its mentioned in dataset table that biostratigraphy/sedimentology is available on some of the wells. Clarification: Please share the details of biostrat/sedimentology work. -Do we have complete biostratigraphy available including palynology, micropaleontology, etc.? please specify details with wells -Biostratigraphic analysis was done on core or ditch cuttings? If ditch cuttings, what's the sample resolution? please specify details with wells -In sedimentological work; do sedimentological analyses include core description, petrography and other core tests? If yes, can OGDC specify the wells and details of core tests. -How much core has already been described? -Does OGDC expect re-interpretation of core if some core has already been described?</p>	<p>Although some work has already been done but OGDCL will not share any biostratigraphic and sedimentological studies. The company want the contractor to conduct detailed biostratigraphy and sedimentology of ditch cuttings and cores for a meaningful study.</p>
3	<p>2D/3D Seismic Data Clarification: 3D/2D Seismic data is available in PSTM format or PSDM?, please specify If PSTM, velocity model available?</p>	<p>2D migrated data in SEG-Y format is available and VSP data is also available in these areas. 3D PSTM data in SEG-Y format is available. Yes, velocity model/data of 3D PSTM is also available.</p>
4	<p>As mentioned in 5.1. It will comprise a visit of contractor to OGDCL head office Islamabad,</p>	<p>We need to perform XRD, because petrography only focuses on generalized</p>

	<p>Pakistan to collect all available wells/seismic data and to inspect cores and collect core and flush cuttings samples for laboratory analysis in order to establish comprehensive geological and seismic database for the study. Besides petrography, do we need to execute mineralogical analysis (XRD) and geochemical studies (AAS and XRF)?</p>	<p>mineralogy greater than 50 microns. Geochemical analysis are not required.</p>
5	<p>In section 5.4. SEM (Scanning electron microscope) and CT scan analysis of core samples should be done for the reservoir quality evaluation. Please clarify that SEM and CT scan study is restricted to pore geometry in various studied reservoir facies, or pore network modelling needs to be done. As per the time frame and scope of work, we believe that it will be confined to pore geometry only.</p>	<p>Although we don't need pore network modelling. But we really need to determine the reservoir quality of sands in terms of porosity, permeability and the cementing material of the rock that will help us while stimulating the reservoirs. The use of SEM and CT scan is very common in integrated sequence stratigraphic studies.</p>