## CLARIFICATION#4 AGAINST TENDER # TENDER ENQUIRY NO. PROC-SERVICES/CB/RMD- 5200/2021 INTEGRATED SEDIMENTOLOGICAL, PETROGRAPHIC, DIAGENETIC AND RESERVOIR CHARACTERIZATION STUDY

Following Clarifications have been made in the subject tender.

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| Sr# | Questions for Clarification | OGDCL Reply |
| 1 | Is OGDCL going to provide their inhouse performed Petrophysical analysis or contractor is expected to perform its own petrophysical analysis. | As per TOR “Chapter 3” “Clause 2.1.8” (Consultant to finalize the petrophysical evaluation and estimation of the all reservoirs/possible reservoirs/prospective layers using the complete set of available well data.) |
| 2 | Do we have any advanced logs (e.g. Spectrscopy, NMR, ECS, ADT) available in any wells? if yes, are the processed? | Contractor will perform Petrophysical analysis  2-We have very few wells of advance logs that are not processed. |
| 3 | How many reservoir formations are expected to be analyzed for Petrophysical analysis? | “Chapter 3” “Clause 2.1.8” (Consultant to finalize the Petrophysical evaluation and estimation of the all reservoirs/possible reservoirs/prospective layers using the complete set of available well data.) |
|  | G&G: |  |
| 4 | Please share base map with concession boundaries (D&PL and E.L), seismic survey(s) boundaries & well locations for all fields. | Provided in attachment. |
| 5 | Please confirm if there’s only one (01) 3D seismic survey or there are number of seismic surveys within AOI -1145 Sq.Km? (Reference: Chapter2, Section 2, Page #17) | Only one Seismic Survey |
| 6 | Please confirm that seismic data is time migrated or depth migrated? (Reference: Chapter2, Section 2, Page #17) | PSTM |
| 7 | Please confirm the seismic interpretation density (10\*10 or 5\*5) of the key horizons which will be shared by OGDCL? | As per TOR interpretation of 04 primary horizons will be provided with nearly 5\*5 seismic interpretation density. |
| 8 | Please advise on seismic horizon & fault interpretation refinement, it needs to be carried out within D&PL’s or on whole E.L? | Whole volume. |
| 9 | Seismic sequence work needs to be performed on Key transects only? If yes, how many transects OGDCL would like to be included? | 8 to 10; the orientations to be decided with mutual understandings |
| 10 | Can OGDCL share few regional seismic sections in strike and dip orientation with annotation for proposal preparation? | One Inline is attached for reference. |
| 11 | Does OGDCL require core description/core sedimentology to be done/ re-done on all the available core which is ~1000 meters or optimum core description plan will work? | Consultant to carry out core description for all available core and may submit along with suggestions & justification for selection of optimized intervals for further analysis and interpretation (but consultant to consider that the study objective should not be suffered). However, after the award of study, the final decision in this regard will be formalized after detailed presentation/discussion among the professionals from consultant and client (keeping in view the pros & cons). |
| 12 | Does OGDCL require fresh RCAL/SCAL to be performed in study or is it preferable to utilize existing data? | OGDCL requires that the consultant will carry out SCAL along with their complete analysis in the range of 12 to 15 number of cores of nine (9) meter each in selective wells for different reservoir levels. The final decision for these wells and intervals by name will be formalized after award of contract. |
| 13 | Does OGDCL require fresh high-resolution biostratigraphy/ thin section to be carried out some key wells or is it preferable to use existing data? | OGDCL require fresh high-resolution biostratigraphy/ thin section to be carried out for selected wells/samples. |
| 14 | Please confirm if 1D Geohistory plots are available? | Not Available. |
| 15 | As mentioned in section 3.1.1.7, that contractor needs to prepare cycle analysis diagram, does this mean a “Fisher Plot”? | Consultant to develop facies depositional plot “Facies Cycle Diagram” for stacking patterns to represent the vertical as well as horizontal facies variations. |
| 16 | As mentioned in section 3.1.3.1, that contractor needs to provide summary diagram of s*equence stratigraphic cyclicity against a ‘type’ well/succession (Lateral as well as Vertical)*– Does this refer to sort of chronostratigraphic representation of various sequences in vertical successions and their lateral facies changes in basinward direction? Please confirm. | The understanding above is fine. |
| 17 | Please confirm if OGDCL has already preserved the following material from previously conducted sedimentological studies:   * 1. Thin sections of the core sample   2. Remaining stubs of the sample after the thin section preparation. | No. |
| 18 | Please could you confirm with OGDCL that the database will include logs for all 178 wells and if possible to provide the inventories for these additional wells. | Sheet attached. |
| 19 | As we know phase 1 must be conducted in Pakistan. Could the contractor use OGDCL’s laboratory and equipment for core analysis and all studies on phase 1 or Should the contractor use only its own laboratory and equipment in Pakistan? | Contractor will use own resources |
| 20 | As we know the phase 1 must be conducted in Pakistan and the other phases could be conducted on the territory of the contractor (Russian Federation) because of the difficult epidemiological situation in view of the COVID-19 pandemic worldwide.  Stage 4 includes several types of laboratory analyzes of core samples,  which are required the delivery of samples to a laboratory in the territory of the contractor (Russian Federation) or using the laboratory and equipment in Pakistan.  Will OGDCL give permission to the contractor to export core samples to Russian Federation? Could you please explain the core export process? Could the contractor use OGDCL’s laboratory and equipment for phase 4 in case of providing phase 4 in Pakistan? | Yes . Such technical/sensitive data and core samples etc are transported under standard procedures with the permission of government. And  after contract of award and signing the confidentiality agreement. All on  contractor's risk and cost  .Moreover contractors will utilize their own resource Whether in Pakistan or within contractor's territory |
| 21 | How the information will be transferred from Pakistan to Russian Federation to carry out all stages of work except for studying the core?  Could it be done by using iCloud/internet/ server systems? | Hard copy data will be given to Contractor after award of study and signing of confidentiality agreement and soft dat may be shared through emails/internet transmittals |
| 22 | Our specialists will be in Pakistan approximately 6-20 weeks. Do they need to register in Pakistan? | Individual Registration is not required and may be not possible.  it is the company to be registered if required |