CLARIFICATION#1 AGAINST TENDER # PROC-SERVICES/CB/EXPL-2040/2017- AVO INVERSION AND RESERVOIR CHARACTERIZATION THAL SOUTH 3D SEISMIC DATA THAL E.L

Following clarification has been made in the TOR. Prospective bidders are advised to submit their bids accordingly.

Sr #	Reference Section in TOR	Existing Clause	Amended Clause
1	TOR clause#2.1 (objective)	The primary objective of the proposed study is AVO processing/analysis and pre stack Elastic Inversion of Thal South 3D seismic data in order to obtain physical parameters of the subsurface and rock properties over the area. The study should provide detailed high-resolution property volumes along with litho facies and probability distribution. The study would enable to understand reservoir and relationship between petrophysical and elastic properties. The study window including horizons of interest lies from **1300 ms to 3300ms.**	The primary objective of the proposed study is AVO processing/analysis and pre stack Elastic Inversion of Thal South 3D seismic data in order to **enhance the vertical resolution and obtain acoustic, elastic and other rock properties of subsurface units that are helpful in quantitative interpretation of the area**. The study should provide detailed high-resolution property volumes along with litho facies and probability distribution. The study would enable to understand reservoir and relationship between petrophysical and elastic properties. The study window including horizons of interest lies from **1300 ms to 3300ms.**
2	TOR clause# 3.3 of Scope of Work	Further, an estimation of litho facies distribution and their classifications, bulk water saturation, fluid content and building a relationship between petro-physical and elastic properties and illustrating the effect of porosity and water saturation (Sw) variations in the reservoir are included in the scope of work.	Further, an estimation of litho facies distribution and their classifications, bulk water saturation, fluid content and building a relationship between petro-physical and elastic properties and illustrating the effect of porosity and water saturation (Sw) variations in the reservoir **as well as neural network based HDI volume** are included in the scope of work.
3	TOR annexure-V (Deliverables) following point is included in the deliverables		Neural Network based DHI to optimize the drilling location (Revised Annexure-V is attached for reference).

Deliverable for 3D seismic data AVO Inversion and reservoir characterization for THAL SOUTH 3D

Sr. No.	Description	Format	Recommended Media	No. of Copies.
1.	Stacks/Results of intermediate processing for QC and decision making, Weekly Report	SEGY/PPT	DVD/External Drive/ FTP/Email	02 sets
2.	Edited and conditioned Well Logs (including but not limited to DTC, DTS, RHOB), TD pairs etc.	ASCII	DVD	02 sets
3.	Conditioned gathers, Estimated Wavelet. Near, mid and far Angle/offset gathers & Angle/offset Stacks , Intercept & Gradient Stack Volumes, Synthetic Seismograms, rock physics analysis and cross plots, AVO classes and their cross plots etc.	SEGY	LTO-4/IBM-3592 Cartridge	02 sets Each
4.	Vp, Vs, P-Impedance, S-Impedance, Density, Vp/Vs , Poison's Ratio, Mu-Rho, Lambda Rho, lithology, Probability, Effective Porosity, Water Saturation, cross plots, Fluids, and Facies estimations , geobodies extraction and volumetrics etc.	SEGY volumes	LTO-4/IBM-3592 Cartridge	02 sets Each
5.	Neural Network based DHI to optimize the drilling location.	SEGY volumes	LTO-4/IBM-3592 Cartridge	02 sets Each
6.	Provisional Report	MS Word PDF	DVD& colored Hard Copy	02 sets Each
7.	Final Report	MS Word PDF	DVD& colored Hard Copy	04 sets Each