

OIL INDIA LIMITED
(A GOVT. OF INDIA ENTERPRISE)
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**AMENDMENT NO. 1 DATED 05.06.2021 TO IFB NO. CDH6944P22 FOR
'HIRING OF SERVICES FOR ACQUISITION OF HIGH DENSITY (HD) 3D
SEISMIC DATA OF 96 SQ.KM IN KUMCHAI AREA, ARUNACHAL
PRADESH.**

This Amendment to Tender No. **CDH6944P22** is issued to notify the following change:

- (i) **The Checklist-1 enclosed with the original tender document stands replaced with Revised Checklist-1 enclosed herewith.**

All other Terms and Conditions of the original Tender Document will remain unchanged.

Sd/-
(B. Brahma)
Sr. Manager – Contracts (G)
For General Manager – Contracts
For Resident Chief Executive

Revised Checklist-1

**EQUIPMENT AND ACCESSORIES TO BE DEPLOYED BY THE CREW FOR 3D
SEISMIC DATA ACQUISITION**

Sl. No.	NIT Criteria	KUMCHAI		
		Area	Quantity	Supporting Documents with file and page references of uploaded documents
A	SURVEY EQUIPMENT: The survey equipment shall not be more than five (5) years old as on the date of Original Bid Closing and must be in perfect working conditions.			
	DGPS (RTK) units capable of operating in L1 & L2 modes with required accessories and software in adequate quantity.			
	Total Stations with data loggers, accessories and survey software in adequate quantity.			
	The bidder must use DGPS for reference point fixing and use the latest equipment e.g. total stations with in-built EDM & Data logger, for control survey & line implantation. The quantities of all the survey equipment to be deployed are to be decided by the bidder to meet the required survey objectives, receiver/source efforts as per pre-planned survey design and project time line already stipulated			
B	SEISMIC DATA RECORDING EQUIPMENT: Not more than three (3) years old, as on the date of Original Bid Closing. The equipment must be in perfect working condition. The number of nodes/recording equipment, to be deployed must be adequate to have the capability of sufficient roll over for recording of requisite number of shots per day to complete the project within the stipulated time frame also considering the receiver effort as per survey design. The recording equipment must be:			
	Seismic Data Recording System–State of the art Acquisition System with 24- bit $\Delta\Sigma$ Technology.			
	Recording capability of minimum 10000 channels at 2 ms sampling per shot.			
	Sufficient Cables, Digital/Analog High Sensitivity & Low Distortion single sensors, Nodes with provision of external/internal sensors for cable less systems, Accessories, Encoder/Decoder, remote units, inter connect boxes etc.			

	Bidder has to deploy Cable/Cable Less/Hybrid Seismic Data Acquisition system. OIL will QC the acquired Shot gathers (with all active channels) on daily basis post completion of each day recording operation.			
	The time break delay between Radio Shooting system (Confirmed & predicted TB) shall be less than 1 millisecond (ms).			
	GEOPHONES: Geophones shall not be more than one (1) years old as on the date of Original Bid Closing.			
	Contractor should use Digital/Analog High Sensitivity & Low Distortion single sensors with standard casing/strings for marshy areas which must be industry standard. The response of Geophones/Nodes with provision of external/internal receivers for cable less systems should be as per specifications of OEM.			
	Response of Offered industry standard Geophone must be as per OEM specifications,			
	The offered Geophones must be fully compatible with seismic data acquisition system along with interface/telemetry cables/nodes with internal or external mode of receiver for cable less system.			
	For analog Geophones, no. of geophones per station must be 12 (twelve) with industry standard spike length. The configuration must be: 6 x 2 [(6 in Series and two (2) such series in parallel)].			DELETED
C	UPHOLE/LVL SURVEY EQUIPMENT: Uphole/LVL Survey equipment shall not be more than three (3) years old as on the date of Original Bid Closing and must be in perfect working condition. The system must comprise of the following:			
	24 channel digital recorder with 0.1 ms sampling interval.			
	Suitable cables for Uphole / LVL Survey meeting manufacturer's specifications.			
	Refraction Geophone 4.5 Hz. The Geophones must meet manufacturer's specifications.			

	Uphole Survey Digital Recorder with a minimum of 4 channels and down hole cable, hydrophone/geophones suitable for logging to 60 m weight drop/explosive as source.			
	One equipment set for LVL Survey.			
	One equipment set for UPHOLE Survey.			
D	COMPUTING: Five Nos. of Stand-alone workstations with adequate RAM, disk-space for the following software packages:			
	Survey data management & processing.			
	3D field management/planning.			
	3D survey simulation (OMNI/MESA/NORSAR or equivalent).			
	LVL/Uphole data processing and interpretation.			
	3D DATA FIELD QC PROCESSING			
	Full-fledged 3D Seismic Data Processing software for Field QC processing of acquired 3D seismic data.			
	The workstation needs to be connected to colour plotter, line printers and IBM 3592/DVD/LTO5 cartridge drives for back-ups and any other facilities required to control the quality of survey and to provide the technical inputs required by Company.			
	All the hardware shall not be more than two (2) years old as on the date of Original Bid Closing & must be in perfect working condition along with all necessary software which the bidder proposes to use.			

	The Field Processing Software Version (Seismic Processing packages along with version, date of release) shall be of latest version as on the date of Original Bid Closing. <u>The field processing software must be capable of processing 3D Seismic Data up to Pre-Stack Time Migration. The processing software must be covered under maintenance contract for the entire duration of the contract with OIL.</u>			
E	COMMUNICATION EQUIPMENT			
	Communication equipment to be provided including walkie-talkies, VHF radios, SSB radios, sufficient for the project and the units must meet the manufacturer's specifications.			
F	TRANSPORT EQUIPMENT			
	The bidder has to decide and bring requisite quantity of specialized transport for crew, explosive vans and jeeps for explosive movement, Instrument van, to carry out seismic survey in areas as described in Scope of Work, Section-II, Part-3. All the available indigenous transport has to be arranged by the bidder, locally. All the transports must be in perfect working condition and meet all the desired specification including insurance and the requisite licenses for the purpose of use. All the vehicles must be equipped with all seat belts, First Aid Kit, Spare wheel, fire-extinguisher etc. as per HSE standards.			
G	SHOT-HOLE DRILLING EQUIPMENT: The shot drilling rigs must be in perfect working conditions, capable of drilling minimum 25m Shot Hole and 50m Uphole in terrains as mentioned in Scope of Work, Section-II, Part-3 (Terms of Reference/Scope of Work). Bidder has to deploy MINIMUM 50 Mechanized drilling rigs with casing while drilling provision to achieve the required production rate in following categories:			
	Mechanized drilling rigs with casing while drilling technology.			

NOTE: Bidder must provide the vintage against the **A to D as asked in NIT.**