

OIL & GAS DEVELOPMENT COMPA Y LIMITED

Request For Quotation (Imports)

ANNEXURE 'A':

OGDCL House, Jinnah Avenue, Islamabad, Pakistan

Phone:

Description:

SERVO HYDRAULIC SEISMIC VIBRATORS FITTED WITH LATEST VIBRATORS CONTROL ELECTRONICS.

Tender Enquiry No:

OGDCL-SCM-FD-CB/ECMP-6200000044 /2022

Delivery Period:

150 DAYS FROM LC ESTABLISHMENT

Mode of Shipment:

CFR KARACHI

wiode of Trocureme

Mode of Procurement: PRESS TENDER

Evaluation Criteria:

FULL CONSIGNMENT WISE

Bid Bond Value:

USD 70,000/- VALID FOR 210 DAYS

Bid Validity:

180 DAYS FROM TECHNICAL BID OPENING

Bidding Procedure:

SINGLE STAGE TWO ENVELOPE

Purchase Req:

20000040

Attachments:

0

Other Terms &

SR NO	Material No	Material Description	Unit	Quantity	Unit Price (FOB)	Total Price (FOB)	Unit Price (CFR)	Total Price (CFR)	Deviation From Tender Spec. If Any
1.		SERVO HYDRAULIC SEISMIC VIBRATORS FITTED WITH LATEST VIBRATORS CONTROL ELECTRONICS.	NO	5					

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Seismic Servo Hydraulic Vibrators (Peak force Minimum 60,000 lbf) With Vibrator control Electronics

Following are the main parts of annexure

- A. Latest Brand New Servo-Hydraulic Vibrators
- B. Latest Brand new Vibrator control electronics of M/s INOVA/ M/s Sercel

A	Brand New Servo-Hydraulic Vibrators					
A-1	GENERAL					
	1. Latest design for simplified operation and easy access for maintenance. Low center of gravity suitable for high sand dunes and high hilly areas. Enhanced					
	visibility to meet all the safety requirements.					
	2. Power take off / engine and pump drive with flexible coupling, reliability should be of high level and heavy duty.					
	3. Simplified hydraulic hose installation to avoid the complications of the piping system with no compromise in the overall performance.					
	4. Operator cabin leather insulated be facilitated with camera to keep an eye on the Front, back and Mass/ Base plate of vibrator during operation.					
	5. Reduced Noise level in the vibrator cabin and around the vibrator at HSEQ standards.					
A-2	VIBRATOR					
74-2	1. Peak Force : Minimum 60,000 lbf					
	2. Rated Frequency : Minimum 1 to 250 HZ (With Maximum Peak Force at 5.5 Hz Minimum)					
	3. Balancing Technique: Air Bags					
	4. Isolation Method : Air Bags					
A-3	HYDRAULIC SYSTEM/ PNEUMATIC					
	1. Filtration : Minimum 3 Micron					
	2. Accumulators : Minimum 04 for smooth operation (02 on manifold and 02 for mass)					
	3. Heat Exchanger : Heavy Duty Core with Hydraulic driven Motor Multi wing fan with temperature control unit					
	4. Air Pressure System : Clean dry air at Minimum 90 PSI for pneumatic components with moisture control unit					
A-4	BASE PLATE					
	1. Type : Rectangular, reinforced P wave type.					
	2. Isolation : Air bags					
	3. Lift System : Minimum 2 Guide Rods and 2 Lift cylinders.					
	4. Ground Clearance : Minimum 18 inch.					
A-5	ENGINE					
	1. Engine : Water cooled 4 stroke Diesel					
	2. BHP : Minimum 400 HP					
	3. Cooling : Heavy Duty water cooled radiator to work in very high temperature Areas (i-e +50 degree C).					
	4. On/Off :Internal and external emergency shutdown safety					

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A-6	MISCELANEOUS		
α-0	1. Fuel Tank	: Minimum for 16 hour operation.	
	2. Axle	: Inboard/outboard planetary axle with operator control differential lock.	
	3. Brake	: Hydraulic actuated Internal Wet Disc, spring actuated wet Disc Parking.	
	4. Frame	: High Strength frame for maximum strength and reliability.	
	5. Steering	: Articulated assembly with hydraulic power steering	
	6. Bumper	: Front & rear bumper	
	7. Plate form	: Working Plate form with railing for working on vibrator.	
	8. Fueling	: Fast Fueling system or quick fueling system	
	9. Canopy	: Sound proof canopy for Engine	
\ -7			,
- '	Steel Construction, Fully Ins	sulated, Tinted Glass, Carpeted, Two Doors, Cooling and Heating system, Adjustable driver and passenger seats with safety Belt, fitted with and hydraulic/ pneumatic circuit monitoring display, outside rear view mirror. Fire extinguisher to be provided inside the driver cabins and hydraulic/ pneumatic circuit monitoring display, outside rear view mirror. Fire extinguisher to be provided inside the driver cabins	-,
	Defractor winer dome light	AC sunroof Cover (Incase AC is on Roof), automatic centralize greasing system, camera to keep an eye on the Front, back and Mass/ Base	ie
	Defroster, wiper, dome right	ration, Central Tire inflating and deflating system etc	
***************************************		ation, Contrar The inflating and deviating systems	
-8	BUGGY		
	1. Length	: Maximum 11.5 Meters	
	2. Width	: Maximum 3.75 Meters	
	3. Height	: Maximum 3.75 Meters with all vehicle accessories	
	4. Grade ability	: Minimum 60 % (31 degree)	
		ght: Maximum 71,000 Lbs	
	6. Electrical	: 24V/12V start	
	7. Winch Capacity	: 30,000 lbs minimum hydraulically operated.	
	8. Tires Type	: All Weather /terrain size 66x43x25 minimum 20 PR Tire (Made in Europe/ USA / North America only) with central tire air inflating system (With one spare tire complete(with bar and spanner) with rim for each vibrator)	
	9. Paint	: White color	01
) i ann		01
A _Q		DLS	1
A-9	TEST BENCH AND TOO	<u>DLS</u>	
A -9	TEST BENCH AND TOO		
A -9	TEST BENCH AND TOO	DLS nostic tool (10 Year License) if deem necessary.	
A-9	TEST BENCH AND TOO TEST BENCH 1. Engine Basic diagr	nostic tool (10 Year License) if deem necessary.	
A -9	TEST BENCH AND TOO TEST BENCH 1. Engine Basic diagr		

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A-10	SPARES	01
	MECHANICAL SPARES	
	1. Adequate Mechanical spares for all the equipment must be quoted for the repair and maintenance for a period of 2 year operation in the remote area's after commissioning	
	including engine top overhauling kit.	
	2. Item wise list of all spares would be provided with technical literature (but prices must be mentioned in financial bid only).	
	3. The price of spares would not be part of financial evaluation at the time of financial bid opening.	
	4. Selection of spares from list would be finalized according to the requirement by indenting department.	
A-11	SET OF DOCUMENTATION.	02
	Set of manuals for vibrators and all associated equipment in English. Complete operation/workshop manuals and part catalogues for all the manufacturer's units fitted	
	on vibrators in soft and hard form.	
A-12	PROFESSIONAL DEVELOPMENT PROGRAM:	01
A-12	Bidder will arrange Two weeks training free of charge for 05 professionals (02 for Engine and 03 for Vibrator Hydraulics) from indenting department at manufacturer's	"
	works for operation, repair and maintenance of Vibrator engine, Vibrator Hydraulics, etc.	-
	Note: - All expenses including travel, living, boarding and per diem etc. will be borne by OGDCL.	
A-13	COMMISSIONING AND START UP ON SITE.	01
	Two weeks for Vibrators onsite equipment commissioning by the bidder/ manufacturer's engineer free of charge, including travel and living expenses at seller's account	
	OGDCL will provide in land transportation from Hotel to Commissioning site.	
A-14	WARRANTY	
	All the equipment must be warranted for a minimum period of two years for all components of main equipment and standard warranty for all other components, which	
r	will start after completion of commissioning and signing of commissioning protocol.	
	All defective items found during Commissioning will be replaced free of charge including freight and other during warranty period by bidder and OEM.	
	OEM certificate of warranty must be provided with the bid.	

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	Control Electronics (Requisition No. 20000040-025-19-2022)	4 01 5
В	LATEST BRAND NEW VIBRATOR DIGITAL CONTROL ELECTRONICS SYSTEM FOR OGDCL DATA ACQUISITION	
	SYSTEMS i-e SERCEL 428XL ONWARD & INOVA G3I SEISMIC DATA ACQUISITION SYSTEMS ONWARD WITH	
	LATEST DIGITAL/TDMA RADIO)	
	EXTEST DISTINATION OF	09
B-1	Vibrator Electronics with digital/ TDMA radio, Wi-Fi for inter vibrator communication and DGPS/RTK.	09
	Latest Vibrator digital control electronics installed on each vibrator.	
	Wifi Wireless for inter vibrator communication to calculate COG.	
	• Performs real time Quality control of the vibrator ground force, computes & transmits complete attribute set for quality control data base to Recording System.	
T	• Provides an optimal control which minimizes distortion & maximizes the fundamental output force & phase locking while controlling ground force amplitude.	
	Performs continuous tests to check the reliability & integrity of the accelerometers.	
	Having capability of both radio & wire line similarity of vibs (to check vibs. performance).	1.
	Vibrator electronics Must be equipped with DGPS/ RTK	
	Pilot generator with digital/ TDMA radio	
	• Capable to work all Sercel 428XL and onward and INOVA G3I HD and onward Seismic Data Acquisition Systems with quality parameter and Quality files and	0.2
B-2	if any Hardware/Software are required to work with any of the said system OEM will be responsible to provide necessary software or any other hardware interface/	03
	standalone to work with different Acquisition system.	
	Having capability of both radio & wire line similarity of vibs (to check vibs. performance).	
	* It enables the use of advanced vibroseis techniques such as: Random, linear, non-linear sweeps & Pulse etc. Simultaneous or slip-mode capable combination of	
	sweep segments with no dead time multiple simultaneous source application fully compatible with most satellite DGPS for recording and display of vibrators	
	GPS positioning and navigation.	·
	Real time Quality Control & data monitoring	
	• Ensuring that the vibrator generates the proper sweep without any risk of polarity inversion.	
B-2-1	A complete QC data base is generated for real time/post processing analysis including, Phase, Distortion, Fundamental ground force.	
	Vibrator signature cross-correlation wavelet, Earth ground model characteristics. All the QC data from Vibrator's Control Electronics can be saved and	
	displayed (at Recording Truck) in detailed Line & Bar graphs for each vibrator current values and average values for a sum of sweeps. Provides comprehensive	
	data analysis and data storage. Also alarms reporting of out of tolerance vibrator.	-
	QC database format : APS files, COG, VP attributes. Other QC files may also be generated by system.	
	Recording Truck equipment for interfacing Vibrator with data acquisition system	02
B-3	Complete with computer, Software, recording system interface, radio set, antenna, cables & accessories to completely interface with Data Acquisition system and	
	Capable to work with Sercel 428XL, 508XT, INOVA G31 HD and INOVA G3I NXT Seismic Data Acquisition Systems.	
	VHF Radio	10
B-4	For Vibrator and recording truck cabin voice communication.	
	Description General	
	VHF mobile two ways radio (transceiver)	
	frequency range 136 to 174 MHz output power 40 watts Min with or without Booster	
	input voltage DC 12V	
	input voitage DC 12 v	

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	Control Electronics (Requisition No. 20000040 023 19 2022)	
-5	TEST BENCH AND TOOLS	02
	TEST BENCH Test bench for Vibrator electronics and pilot generator if deem necessary to repair control electronics in Lab.	
	TOOLS All the standard tools for the repair and maintenance of the equipment must be provided (List must be provided with the bid with literature in English language).	
	All the standard tools for the repair and maintenance of the equipment made of processing the standard tools for the repair and maintenance of the equipment made of processing the standard tools for the repair and maintenance of the equipment made of processing the standard tools for the repair and maintenance of the equipment made of processing the standard tools for the repair and maintenance of the equipment made of processing the standard tools for the repair and maintenance of the equipment made of processing the standard tools for the repair and maintenance of the equipment made of processing the standard tools for the equipment made of processing the standard tools for the equipment made of processing the standard tools for the equipment made of the equipment made of the standard tools for the equipment made of the standard tools for the equipment made of the e	01
B-6	PROFESSIONAL DEVELOPMENT PROGRAM: Bidder will arrange Two weeks training free of charge for 04 professionals from indenting department at manufacturer's works for operation, repair and maintenance of;	
	1: 1: 1/ 1 decision and Dup	
	vibrator digital/electronics control system and bot 3. Note: - All expenses including travel, living, boarding and per diem etc. will be paid by OGDCL.	0.7
		03
B-7	SET OF DOCUMENTATION. Set of manuals for vibrators and all associated equipment in English. Complete operation/workshop manuals and part catalogues for all the manufacturer's units fitted on	
	vibrators in soft and hard form.	01
B-8		
D -0	Two weeks for Vibrator Electronics onsite equipment commissioning by the mandated are sugar- account OGDCL will provide in land transportation from Hotel to Commissioning Site and security will provided by local agent.	
B-9	WARRANTY All the equipment must be warranted for a minimum period of two years for all components of main equipment, which will start after completion of commissioning and All the equipment must be warranted for a minimum period of two years for all components of main equipment, which will start after completion of commissioning and All the equipment must be warranted for a minimum period of two years for all components of main equipment, which will start after completion of commissioning and All the equipment must be warranted for a minimum period of two years for all components of main equipment, which will start after completion of commissioning and All the equipment must be warranted for a minimum period of two years for all components of main equipment.	
	All the equipment must be warranted for a minimum period of two years for all entry defective items will be replaced free of charge including freight and other during warranty period by bidder and OEM.	
	OEM certificate of warranty must be provided with the bid.	
	OLIVI Certificate of marraing and a	

SAP Attachment T&C for The Import of 05 Nos Servo Hydrauffe Seismic Vibrators Effect With Latest Vibrator Control Electronics (Requisition No. 20000040-025-19-2022)

TERMS AND CONDITIONS.

- 1. Bidder must be OEM of vibrator, Vibrator control electronics and Data Acquisition System.
- 2. Bidder must have sold more than 200 vibrators (verifiable sale record must be provided with bid)
- 3. Vibrator electronics must be compatible with OGDCL data Acquisition systems i-e Sercel 428XL 508XT, INOVA G31 and G31 NXT Seismic Data Acquisition Systems.
- 4. OEM will ensure and give certificate to provide necessary cables/software/ hardware to work Sercel 428XL 508XT, INOVA G3I and G3I NXT Seismic Data Acquisition Systems.
- 5. OEM will ensure and give certificate for Technical support and supply of spare parts and Service for minimum 10 years for both vibrators and vibrator control electronics.
- 6. Local representative of OEM will also be responsible for in-time warranty replacement (please provide certificate from bidder on original letter head pad)
- 7. Complete technical bid should be submitted in all respects, with detailed technical English literature and provide compliance sheet with bid of each and every clause of Annex "A".
- 8. Third party Pre- shipment inspection will be conducted as per OGDCL procedure at manufacturer's works (expense will be borne by OGDCL). 02 No. professionals from indenting department will witness the inspection at OGDCL cost.
- 9. Bidder/ OEM will fully cooperate with TPI inspector and witness team during inspection at Manufacturer work place.
- 10. Third party Inspection doesn't limit any of OEM/Bidder obligation and responsibility regarding short/ wrong shipment during post inspection in Pakistan.
- 11. Operational performance will be checked after commissioning and deployment in field.
- 12. Cost / Price of Mechanical Spares will not be considered in financial evaluation of main equipment and it must not exceed 10% of total price of main equipment List of spares will be finalized during financial evaluation.
- 13. Delivery Period 150 Days maximum.

Note: - Certified Translation in English must be provided in case of any of the bid document is in any other Language.