

## المواصفات الفنية

## TECHNICAL SPECIFICATION BID NO. NWD-TC-2025-T-70-01 عطاء رقم

Item	Qty	UOI		Description	Part No.
	2	UNIT	CATERPILLAR D3508 RIG	ENGINE:-	
1		A.	ENGINE:		
			Make / Model	: Cat D3508	
			Cooling System	: Water Cooled / Radiator	
			Speed	: 1,200 rpm	
			Power	: 680 HP @ 1,200 RPM	
			Fuel Used	: Diesel	
			No. of Cyinders	: V 8	
			Cycle	: 4 Stroke cycle IC engine	
			Aspiration	: TCAC Jacket water	
			Compression Ratio	: 14. 5 is to 1	
			Bore	: 170.00 mm (6. 69")	
			Stroke	: 190.00 mm (7. 48")	
			Application	: Rig Floor Engine	

FEATURES:	
1. <b>Air Inlet System</b> : Heavy duty Air cleaners, dual element, service indicators, Air inlet adaptors & shut off.Required square type design	
2. <b>Cooling System</b> : Radiator with guard for desert operation@ 50° C ambient temperature capability with expansion tank, coolant drain lines with valves, fan belt & guards, be shipped with Cat extended life coolant. Fan should be blower type. Inform supplier to make sure that we receive the right size of Radiator intended for <b>Rig Engine D3508</b>	
3. A <b>pplication</b> that would fit in the Rig floor without any problem.	
4. <b>Exhaust System:</b> Stainless steel exhaust flex fittings, dry manifold, flanges face outlet & mufflers with spark arrestor.	
5. <b>Fuel system</b> : Primary & secondary fuel filters, with service indicators, fuel priming pump, flexible fuel lines.	
6. <b>Lube System</b> : Lubrication OI filters, oil level regulator, oil lines with valves, fumes disposal with lines, gear type lube oil pump, electronic & air pre-lube oil pump, deep oil sump.	
7. <b>Mounting System</b> : Rail mounted floor type. Length to accomodate from radiator to Torque converter. <b>Engine &amp; radiator must be mounted in one oilfield skid</b> .	
8. Starting System: Air Start	
9. <b>Governing System</b> : Hydra Mechanical Governor 3161L	Woodward
10. <b>Shut off system</b> : Engine should have Hydra Mechanical Shut OFF Protection for LOW Oil Pressure, Low water level, High Water temperature, OVER CRANK & Overspeed Engine RPM can be controlled from Driller's Console.	
11. With lifting eyes	
12. Instrument panel should be right hand mounted	
13. Filters should be cartridge type	

		14. Air Actuated Governor Control		
		AIR ACTUATOR	3N9124	
		ROD END - BALL BEARING	3H4976 4W0085	
		KIT - ACTUATOR (Includes lever, cover, bearing, push rod, diaphragm)		
		KIT - DIAPHRAGM (Include brng. & diaphragm)	7W4923	
		15. Flywheel & flywheel housing SAE 00 to fit with C245-125 FH National Torque Converter.		
	С	General:		
		- Engine RPM and Emergency Shutoff can be controlled from driller console - Each engine assembly should have a separate Oilfield skid with Rubber mounting capable of towing & skidding as it should be used on Mobile Rigs.		
		- The engine should be permanently mounted on the skid & does not require to be removed from skid during every Rig move.		
		- The engine should be <b>Brand new &amp; of USA origin.</b> Remanufactured are nota cceptable		
		- The new Cat D3508 with Torque Converter should be applicable to be used for <b>Oil well 1600</b> Compound Drive Serial No. H37 -26 or H 37 -28		
		- Include Test Certificate, Certificate of conformance, Warranty Certficate & any other needed documentations		
4	SETS	Complete with Service &D48 user Manual with CD ROM		
		*Warranty*		
		* Training for 2 Technicians for 10 days including Air flight tickets, full accommadiation, any personal expenses will be borne by your Company		
		* Inspection and Witnessing by NWD personnel prior to shipment		
		-The offer must include Detailed Technical Offer, Data sheet, they can make also checklist based on our requirements for to evaluate easily		
		END OF SPECIFICATIONS.		