



المواصفات الفنية

TECHNICAL SPECIFICATION

عطاء رقم NWD-TC-2025-T-70-03 BID NO.

Item	Qty	UOI	Description	Part No.
	2	UNIT	CATERPILLAR 3412E RIG ENGINE:-	
1		A.	ENGINE:	
			Make / Model : Cat 3412 E	
			Cooling System : Water Cooled / Radiator	
			Speed : 1,200 rpm	
			Power : 746 bkW (1000 bhp)2100 rpm	
			Fuel Used : Diesel	
			No. of Cyinders : V 12	
			Cycle : 4 Stroke cycle DIESEL	
			Aspiration : Turbocharged-Aftercooled	
			Compression Ratio : 14. 5 is to 1	
			Bore : 137 mm (5.4 in.)	
			Stroke : 152 mm (6 in.)	
			Application : Rig carrier Engine	

		B	FEATURES:	
			1. Air Inlet System: Aftercooler core ,corrosion resistant coated Air cleaner,Regular duty, dry, service indicators Dual turbo engines,'With panel-type air cleaners.	
			2. Cooling System: Radiator with guard for desert operation@ 50° C ambient temperature capability with expansion tank, coolant drain lines with valves, fan belt & guards,coolant level sensors & coolant level switch guage. Should be shipped with Cat extended life coolant. Fan should be blower type , Thermostats and housing , Jacket water pump — gear driven, centrifugal. RH.	
			3. Exhaust System: Exhaust manifold — dry , Exhaust elbow, dry 203 mm (8 in.) , Turbo exhaust connection , Exhaust fittings,Elbows,Exhaustadapters, Flange,Clamp,Pipes,Manifold,Mufflers.	
			5. Fuel system: Primary & secondary fuel filters, with service indicators, fuel priming pump, flexible fuel lines.	
			6. Lube System: 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. Mounting System: Supports (Engine & radiator) With lifting eyes.	
			8. Starting System: Electric starting motors 24V, Battery sets – 24V.	
			9. Governing System: E.C.M	
			10. Shut off system : 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. Instrumentation : Instrument panel — RH, Engine oil pressure gauge , Fuel pressure gauge , Jacket water temperature gauge ,Service meter.	
			15. Protection System:- Electrical shutoff – 24 Volt , Solenoid shutoffs , Switches and contractors , Governor shutoff lever ,	
			16. Flywheel & flywheel housing SAE 00 to fit with Allison transmission MODEL CLT6061	

		c	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 Brand new & of USA origin. Remanufactured are not acceptable	
			- Include Test Certificate, Certificate of conformance, Warranty Certificate & any other needed documentations	
	4	SETS	Complete with Service & user Manual with CD ROM	
			Warranty	
			* Training for 04 Technicians for 10 days including Air flight tickets, full accommodation, 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.				