

SUPPLY OF DIESEL GENERATOR		
	TECHNICAL SPECIFICATIONS	COMPARATIVE SPECIFICATION / REMARKS
A - Minimum technical requirements.		Comparative specification / remarks should indicate any deviation from technical parameter or functional description of tender specification or confirmation with "Yes" and if applicable further particulars.
1.0	Diesel Generator	
1.1	3 Phase 50 Hz - 60 Hz, Noise Silencer (reduction level 19-21 (dB))	
1.2	Performance: Genset power rating 50 -0 kVA 56.3 kVA / Genset power rating with fan @ 0.8 power factor 40.0 kW 45.0 kW / Emissions Low BSFC / Performance number P2502B P2502A	
1.3	Fuel Consumption: Fuel tank capacity, litres (US gal) 103 (27.2) / 100% load with fan, L/hr (gal/hr) 11.7 (3.1) 12.9 (3.4) / 75% load with fan, L/hr (gal/hr) 8.7 (2.3) 9.7 (2.6) / 50% load with fan, L/hr (gal/hr) 6.0 (1.6) 7.0 (1.9).	
1.4	Cooling System: Radiator air flow, m³/min (cfm) 86.4 (3051) 105.6 (3729) Total coolant capacity, L (gal) 10.2 (2.7).	
1.5	Inlet Air: Max. combustion air intake restriction, kPa (in H2 O) 8.0 (32.1) / Combustion air inlet flow rate, m³/min (cfm) 3.1 (109) 3.9 (138)	
1.6	Exhaust System: Exhaust stack gas temperature, °C (°F) 537 (999) 551 (1024) / Exhaust gas flow rate, m³/min (cfm) 7.7 (272) 9.5 (335) / Exhaust system backpressure (maximum allowable), kPa (in. water) 10.0 (3.0) 15.0 (4.4).	
1.7	Heat Rejection: Heat rejection to jacket water, kW (Btu/min) 30.0 (1706) 34.0 (1934) / Heat rejection to alternator, kW (Btu/min) 5.2 (296) 5.4 (307) / Heat rejection to atmosphere from engine, kW (Btu/min) 8 (455) 9 (512) / Heat rejection to exhaust (total) kW (Btu/min) 35.0 (1992) 43.0 (2448).	
1.8	Alternator: Voltages: 50 Hz: 380 – 415 – 400 / Motor starting capability @30% Voltage Dip, skVA: 50 Hz: 81 – 96 – 90	
1.9	Frame size: 230 cm * 90 cm * 135 cm	
1.10	Dry Weight: Up to 1 ton	
1.11	Control panel with: ATS	
1.12	Fuel capacity size up 100 L , Fuel Consumption @100% load: maximum 4.5 L/hr	
1.13	Automatic Shutdown - Start	
1.14	Automatic Low Oil Alarm – Shutdown	
2.0	Fuel tank	
2.1	Galvanized steel Fuel tank	
2.2	Capacity 2,000 Liter	
2.3	Thiknes 1.8 mm	
2.4	Connecting to the generator and built fuel containment.	
2.5	fuel filler	
2.6	necessary pipes are included	
3.0	Cage for Generator and fuel tank	
	steel frame (5*5 cm 2mm thickness)	
	covered by of BRC 5*5cm, 5mm for the sides and by Kerby for the roof door (2*1 m)	
	galvanized steel plate to be connected to the exhaust of the generator	
	frame painting: 2 layers of anti-rust paint and 1 layer of colored paint	
	outlet for generator exhaust	
	size: needs to cover generator and tank with min 1m space in between, min. size 20m2	
B. DELIVERY		
1	DDP Al-Mosul GIZ GH	
2	Handling, worker, transportation,crane,connection, and installation is under the responsibility of the supplier included in the price	
2	Please indicate the shortest delivery time	
C. REMARKS AND CONDITIONS		
1	All standard accessories for all offered items should be provided.	
2	all necessary materials, equipment, tools, skilled and unskilled labor(s) to complete the work perfectly and neatly is under the responsibility of supplier.	
3	The contractor will be responsible to provide all necessary personal protection equipment (gloves, safety-shoes, protection glasses...etc.) for workers involved and take the safety measures during the work in the site to prevent accidental	
4	The supplier is responsible for connecting the fuel tank to the generator and providing all necessary items.	
5	connect the generator with the house main electricity system is under the responsibility of supplier.	
6	The supplier must specify the warranty duration for all items with1 year warranty Starting from the time of delivery to the site	
7	Catalogues or technical data sheet are requested for all items!!!	
8	Comparable specifications to be highlighted in the catalogues.	
9	The brand and the model of the offered items to be indicated.	
10	Reference pictures are only to recognize and understand the items, not an indication for any model or brand	